

FIG. 1A

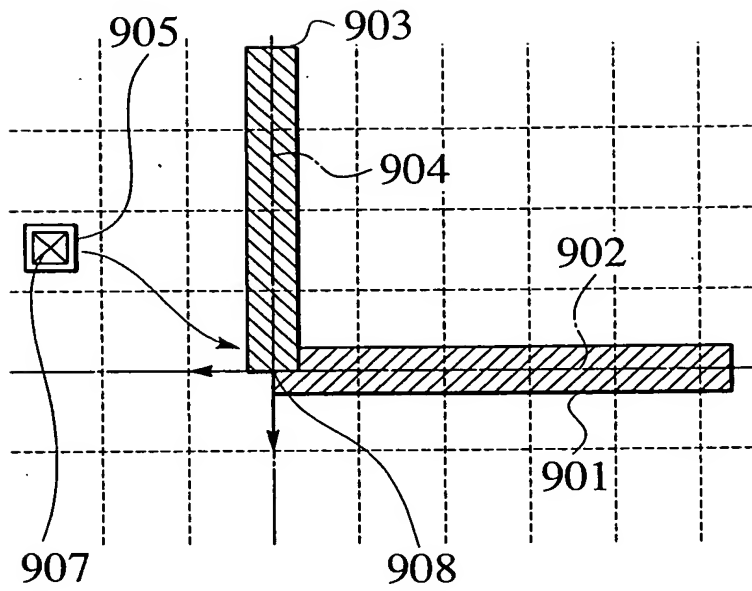


FIG. 1D

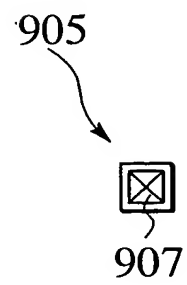


FIG. 1E

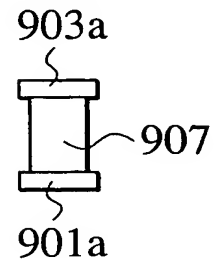


FIG. 1B

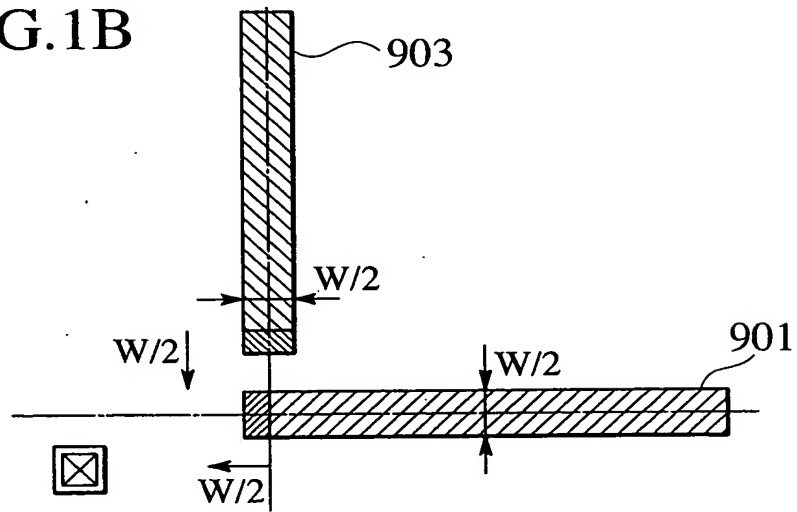


FIG. 1C

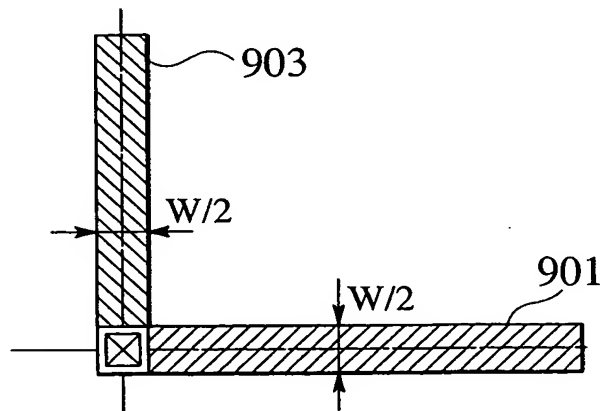


FIG.2

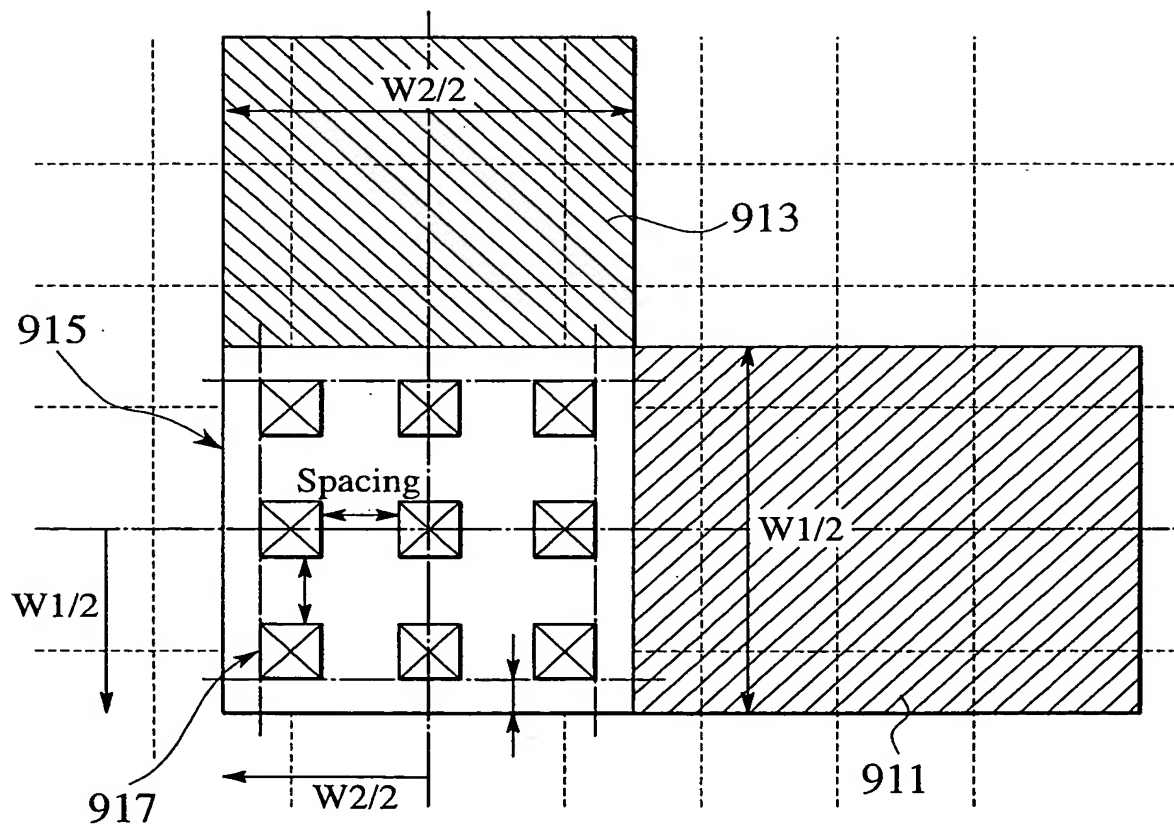


FIG.3

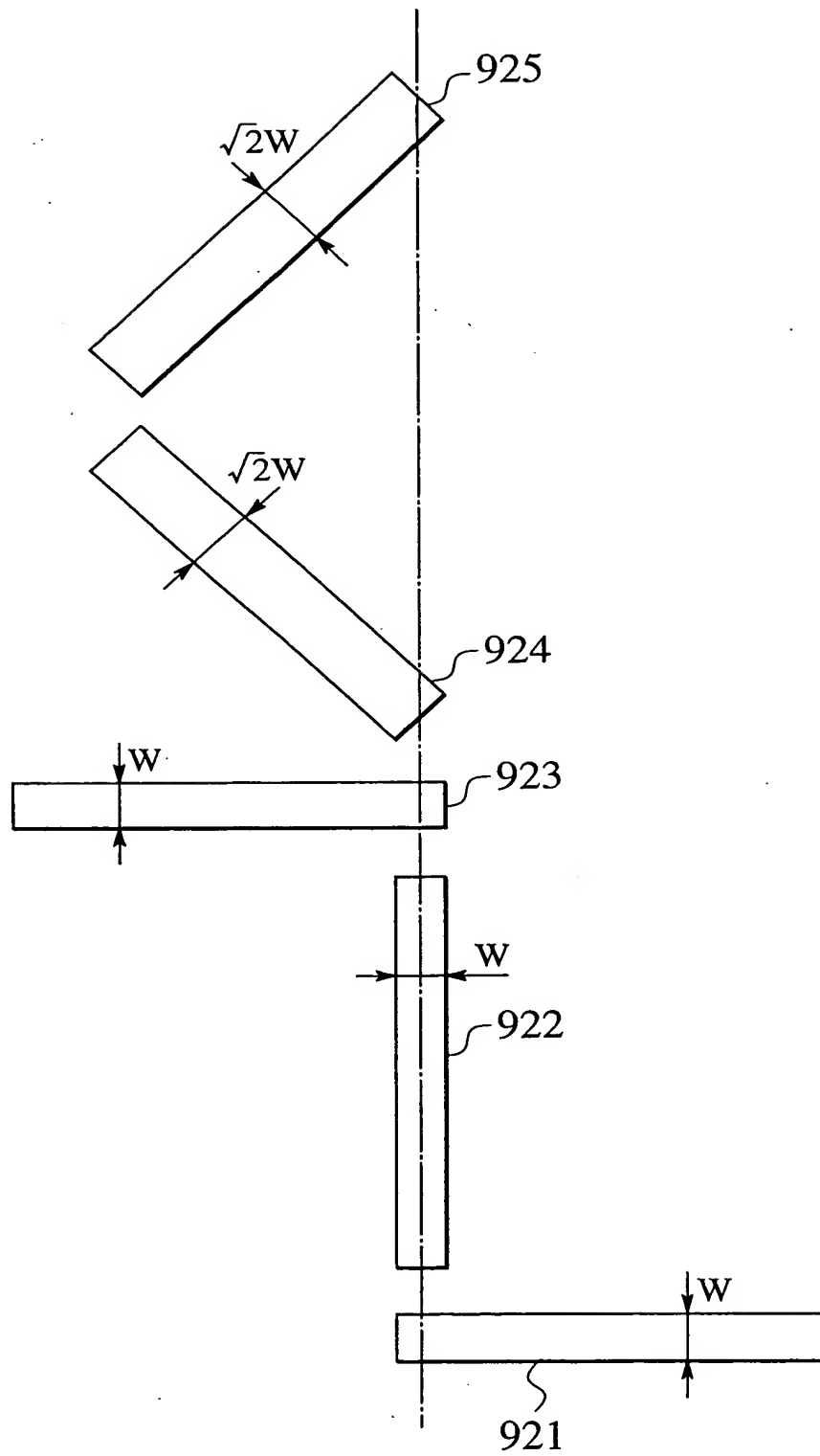


FIG. 4A

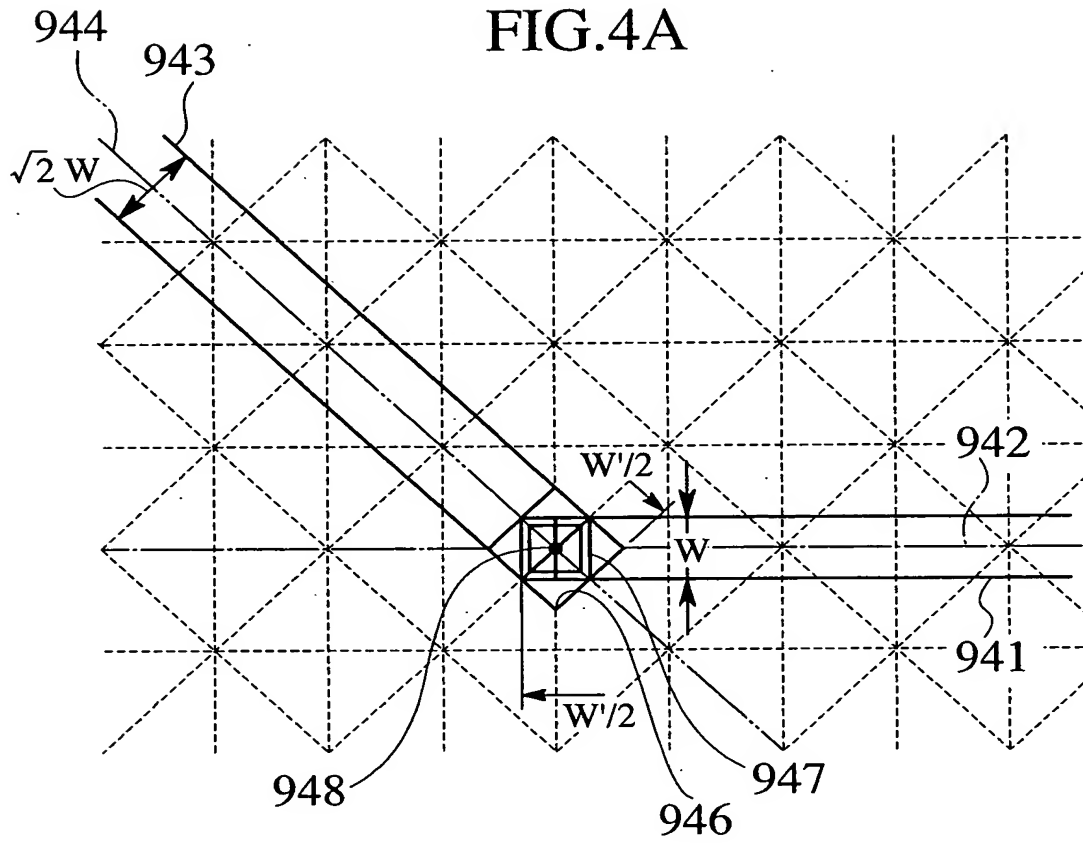


FIG. 4B

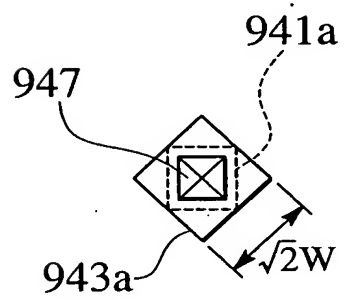


FIG. 4C

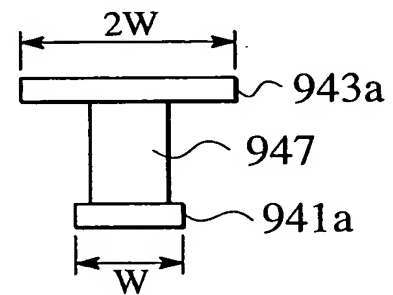


FIG.5A

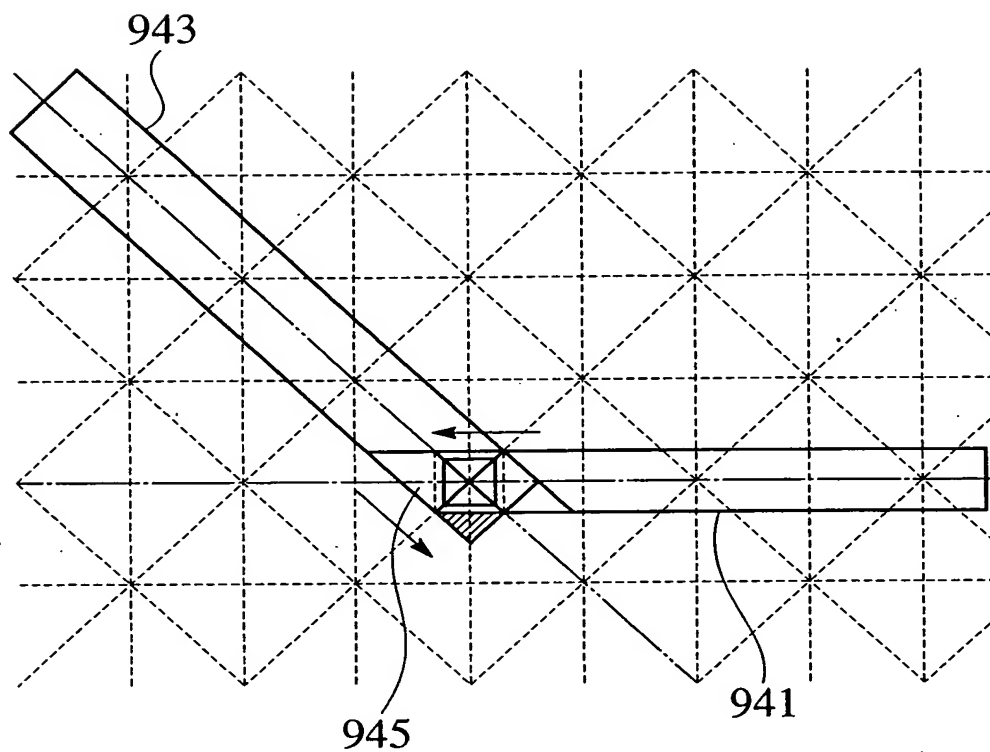


FIG.5B

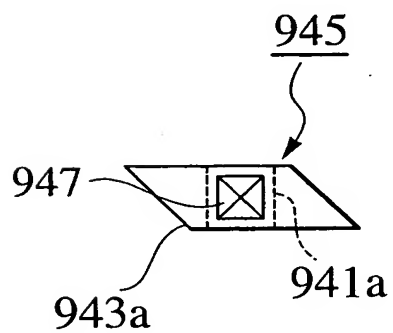


FIG.5C

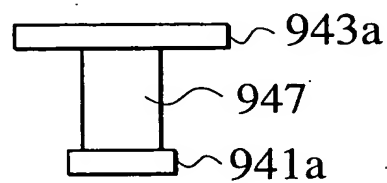


FIG.6

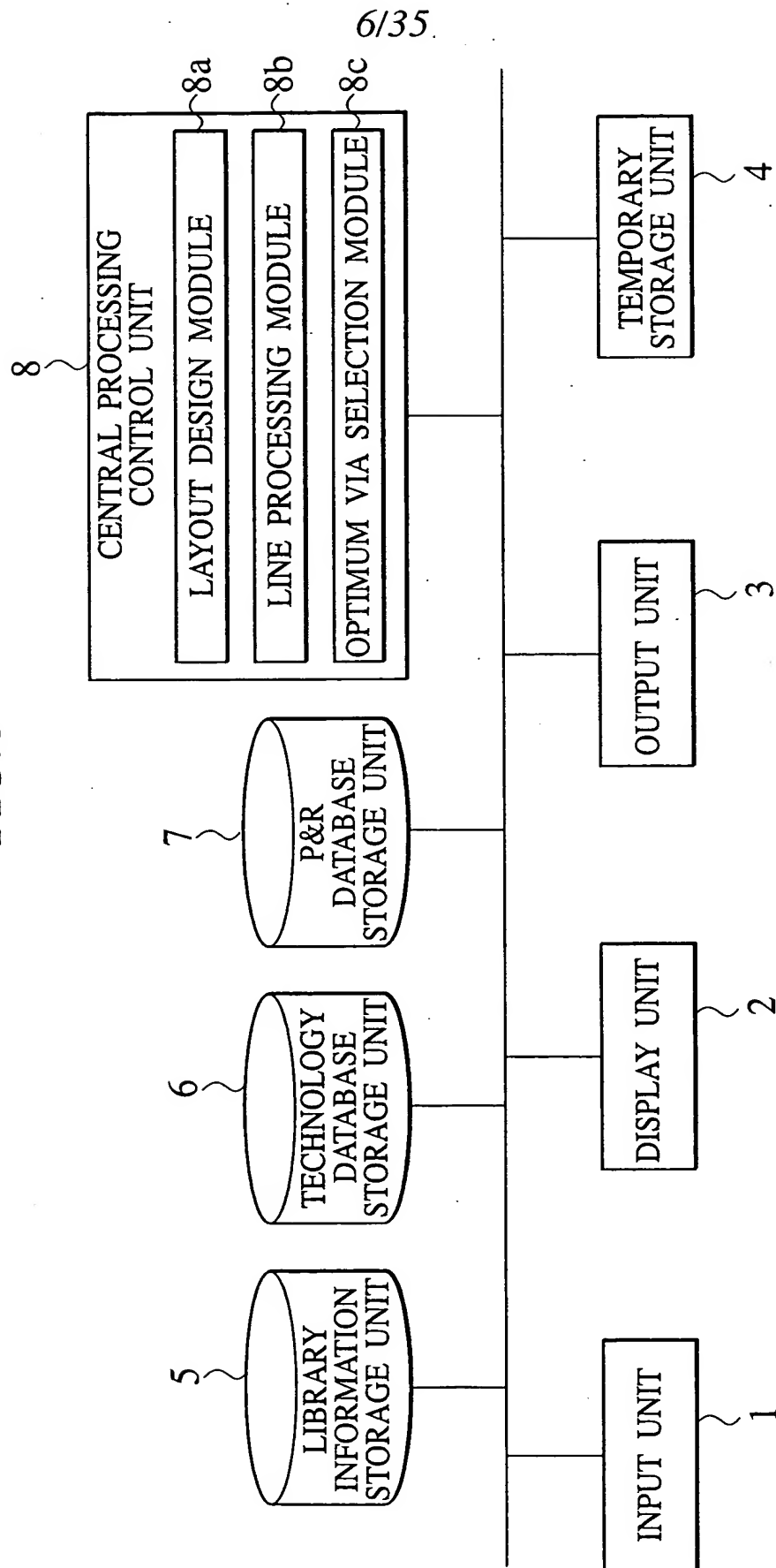


FIG. 7

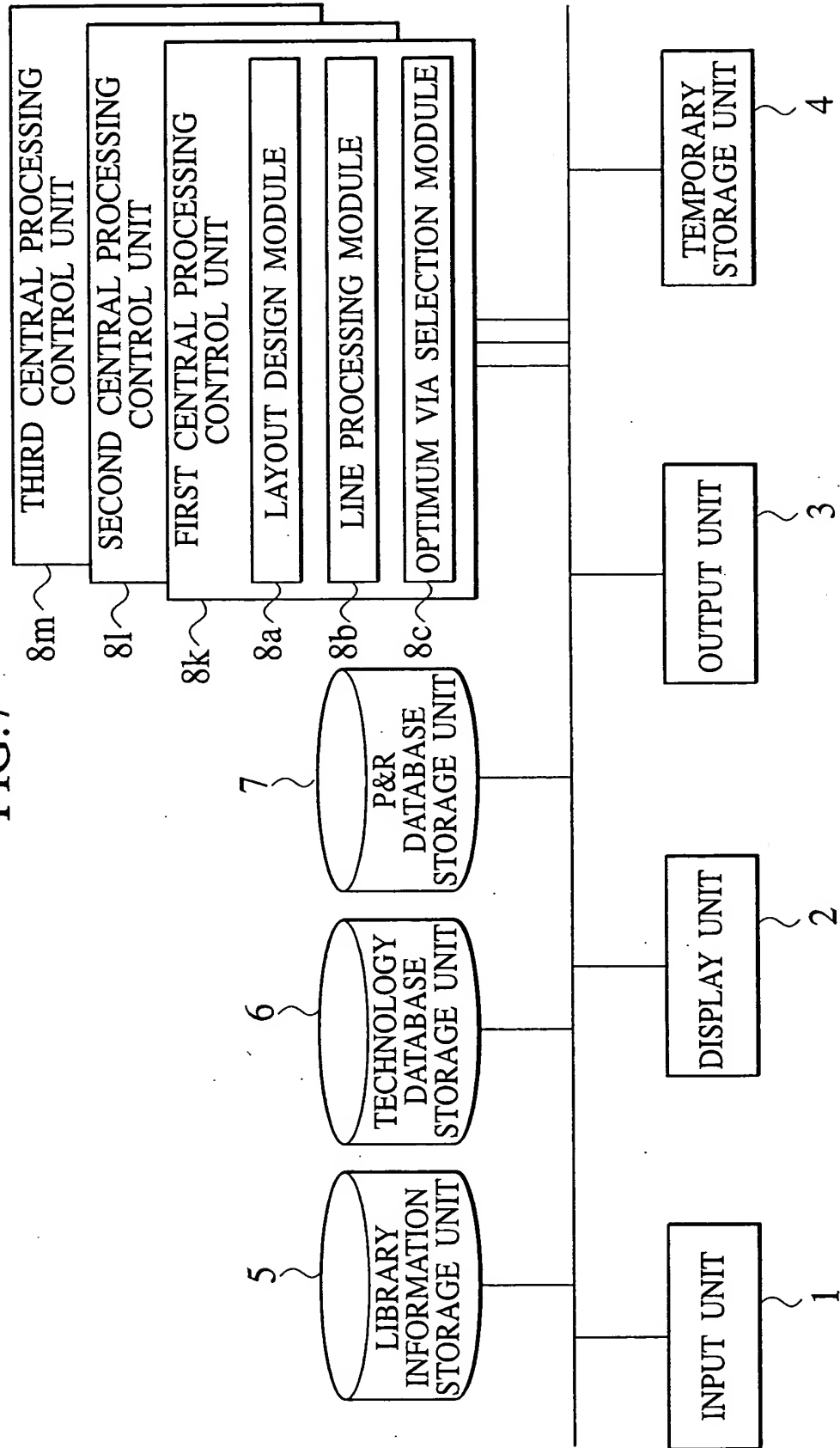
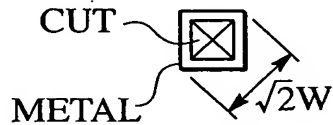


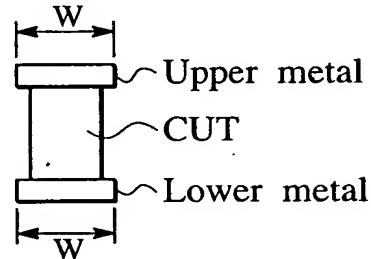
FIG.8

## Basic VIA shape list

## 1. Rectangular VIA

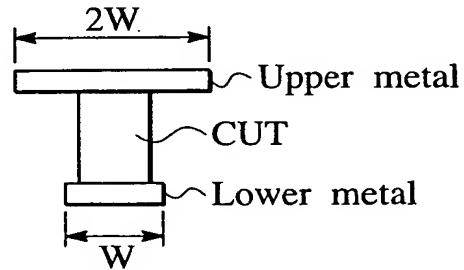
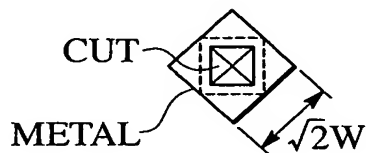


Top view

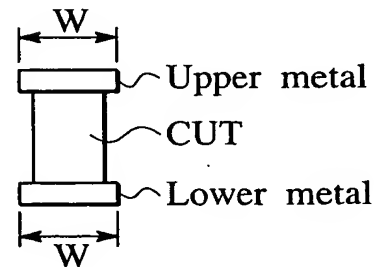
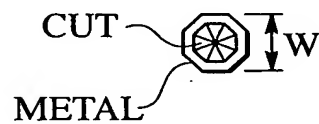


Sectional view

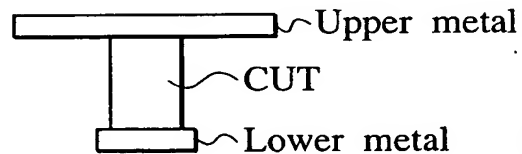
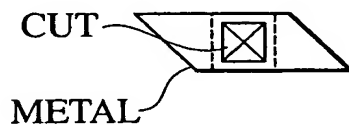
## 2. Lozenge VIA



## 3. Octagonal VIA



## 4. Parallelogram VIA



## 5. Rectangular VIA case 2

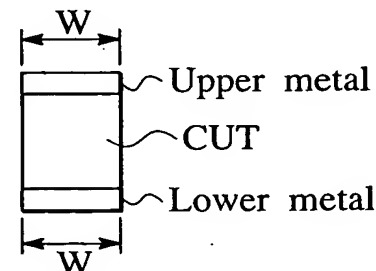
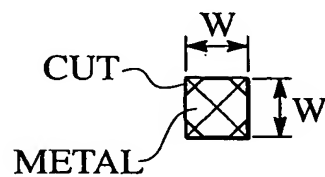
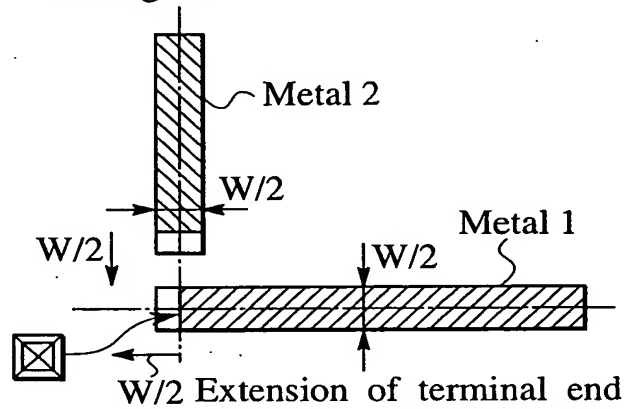




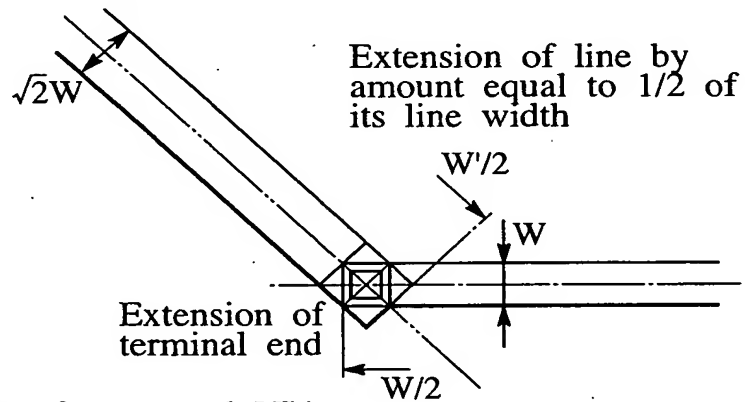
FIG.9

## Terminal processing method

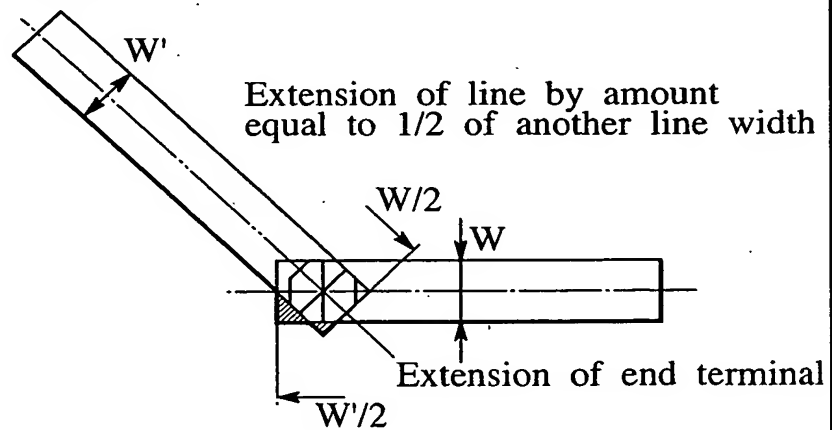
## 1. Case of rectangular VIA



## 2. Case of lozenge VIA



## 3. Case of octagonal VIA



## 4. Case of parallelogram VIA

FIG. 10

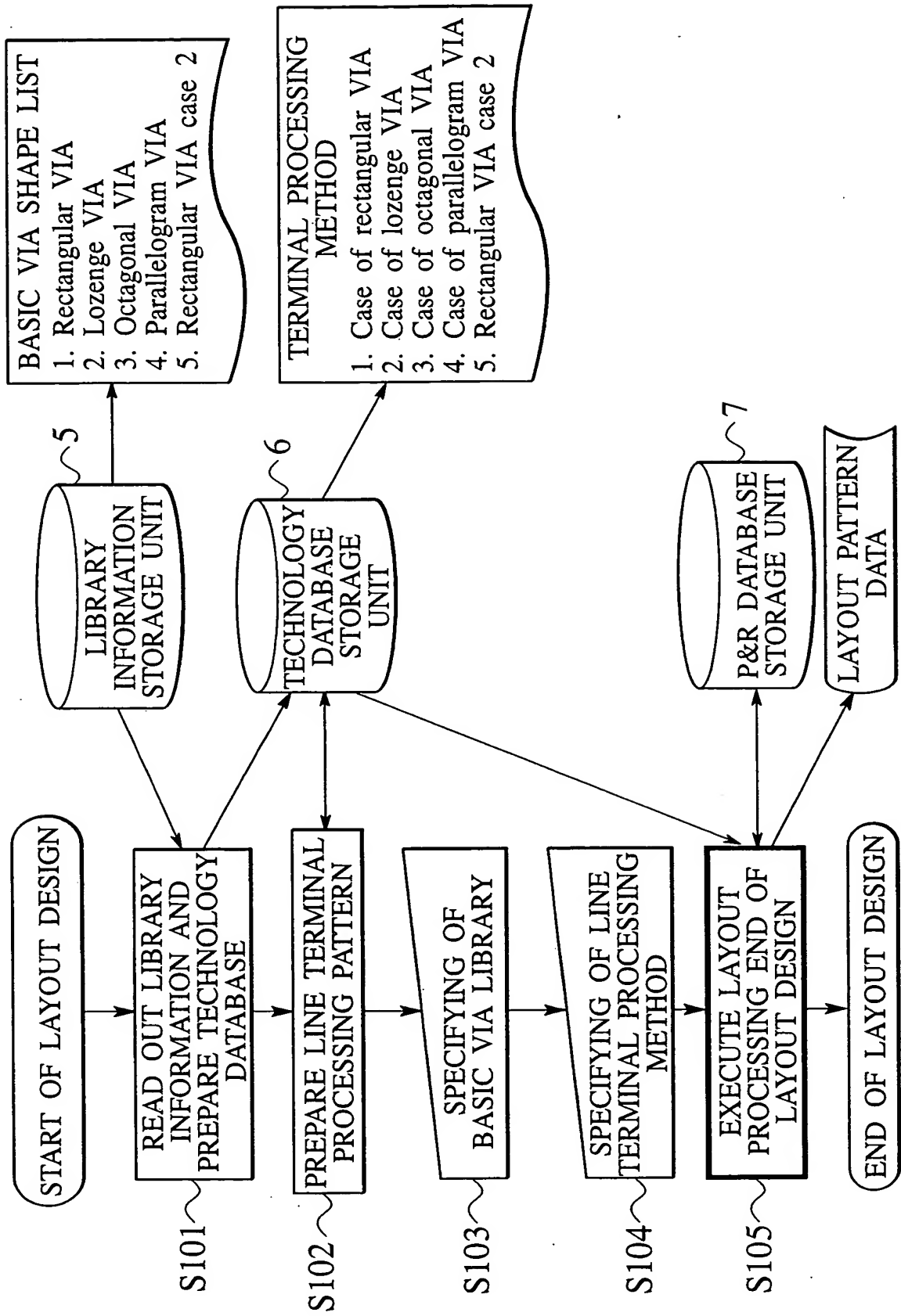


FIG.11

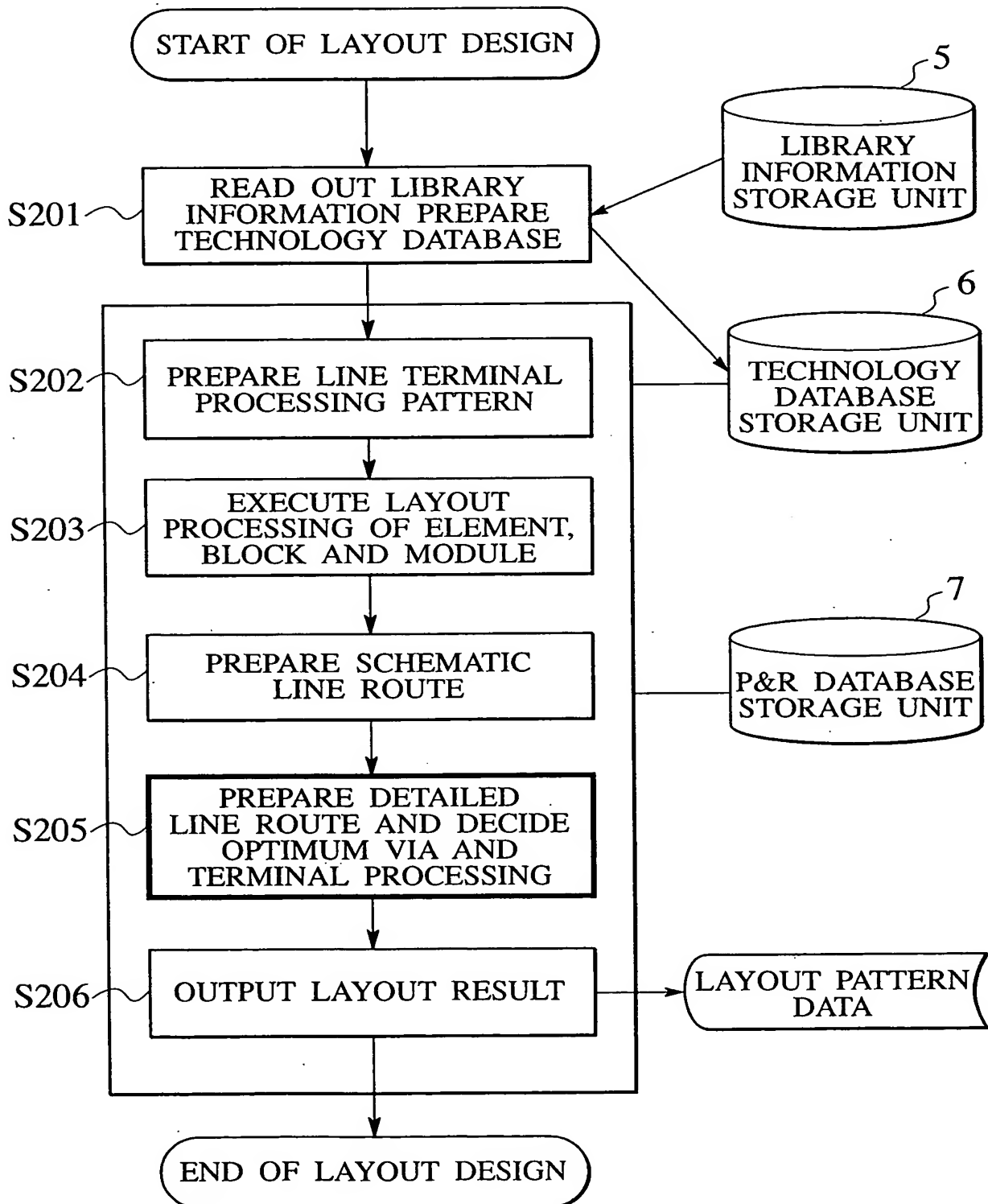


FIG.12

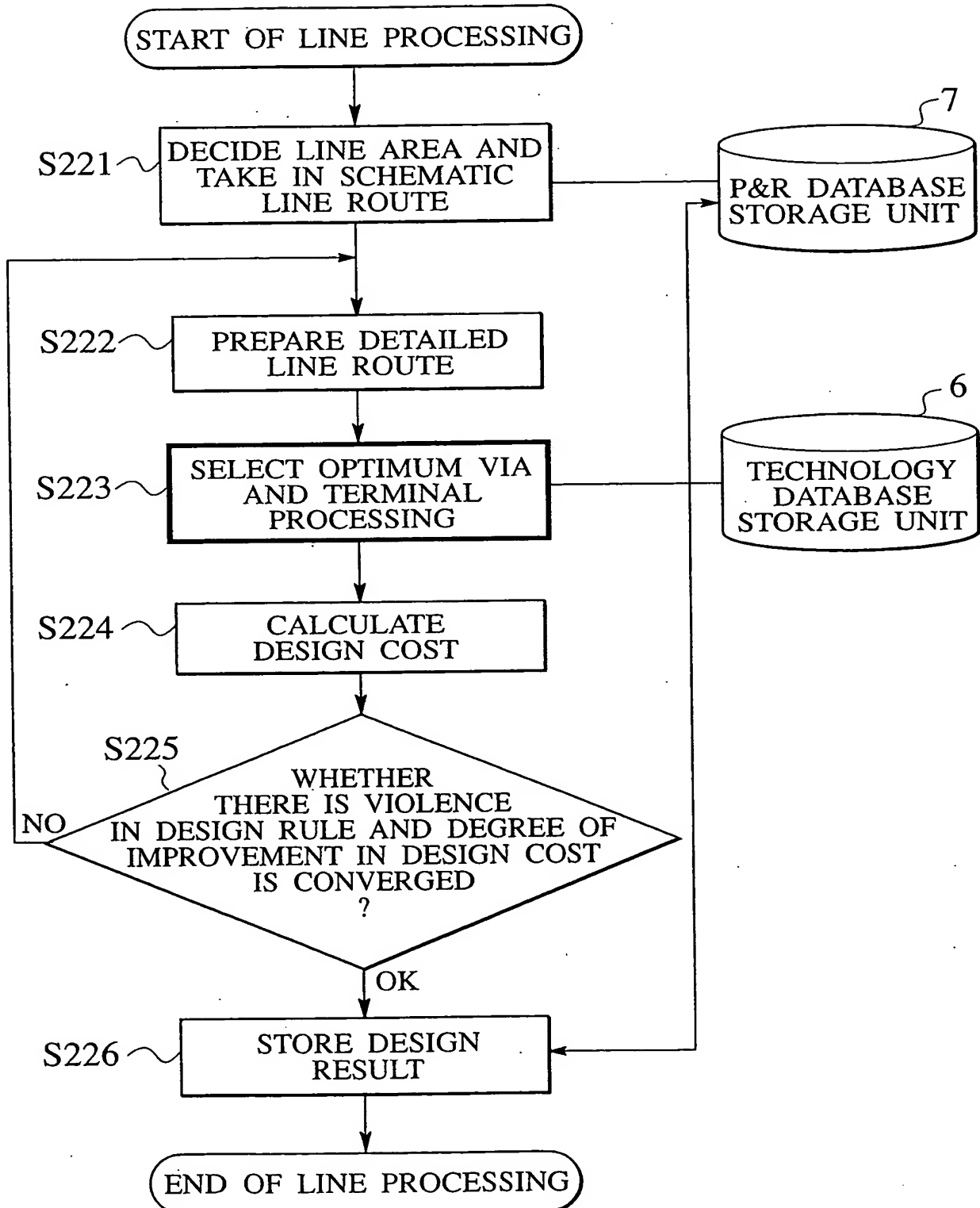
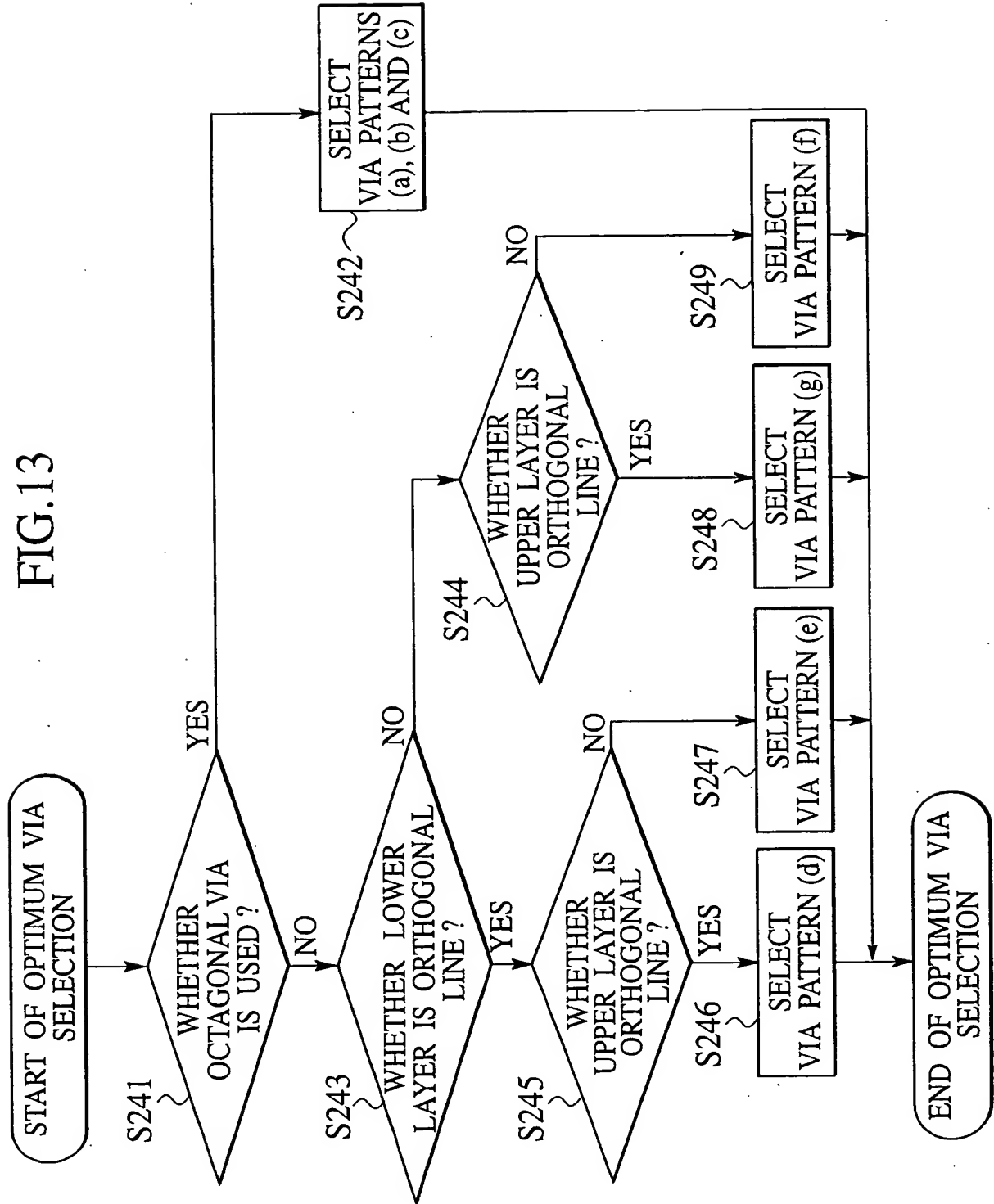


FIG.13



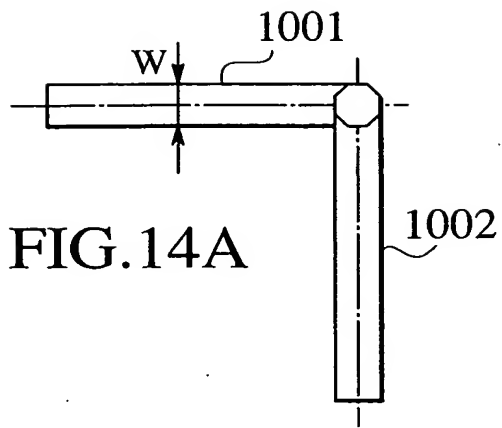


FIG. 14A

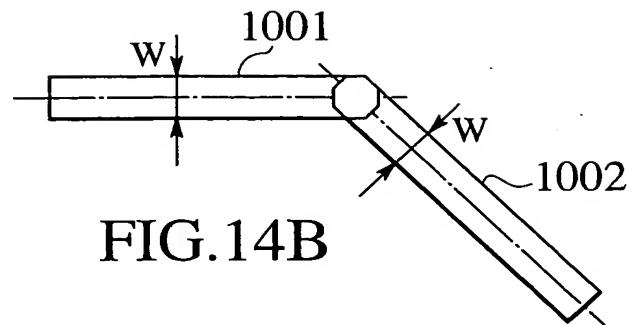


FIG. 14B

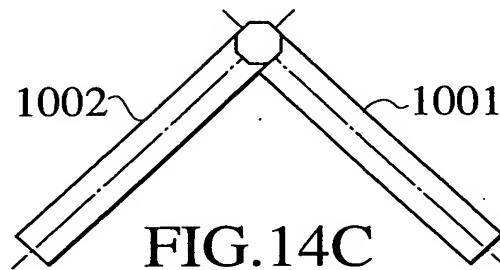


FIG. 14C

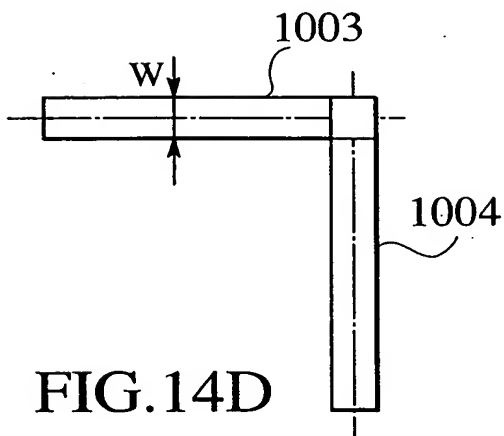


FIG. 14D

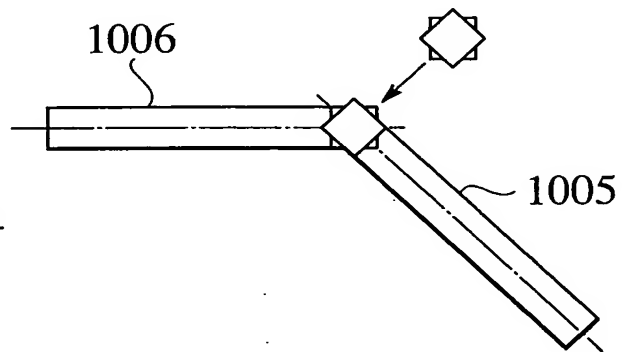


FIG. 14E

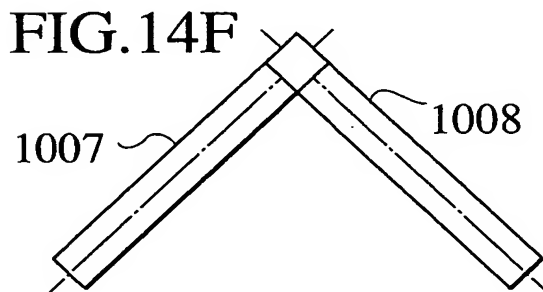


FIG. 14F

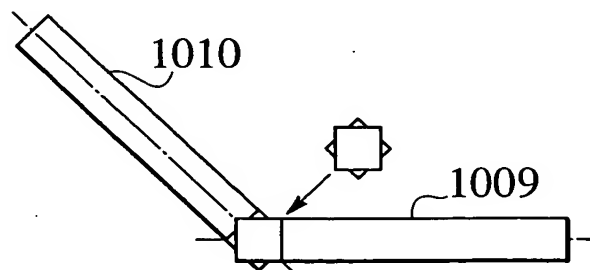


FIG. 14G

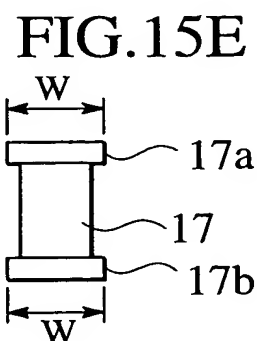
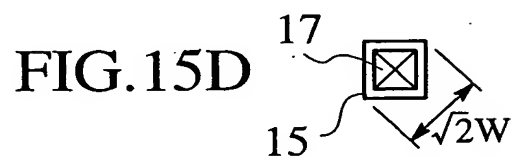
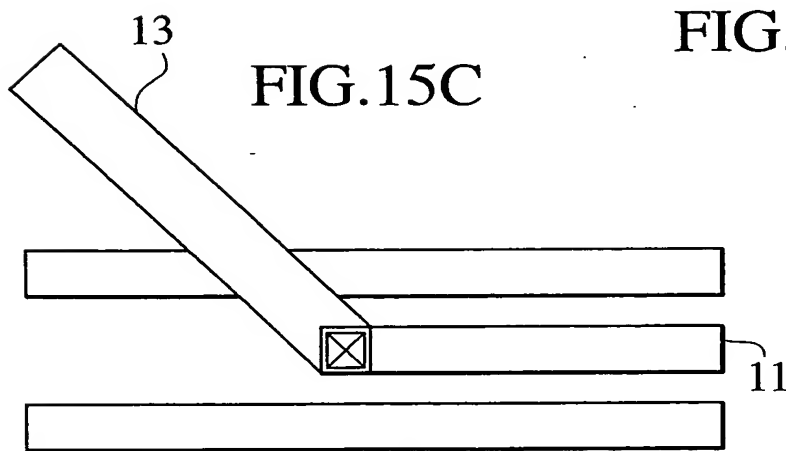
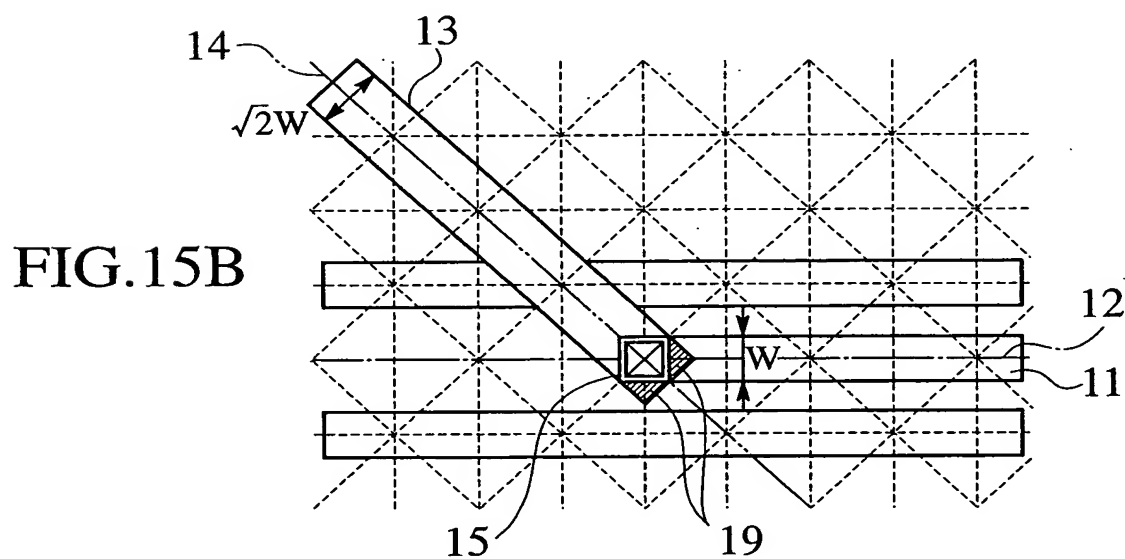
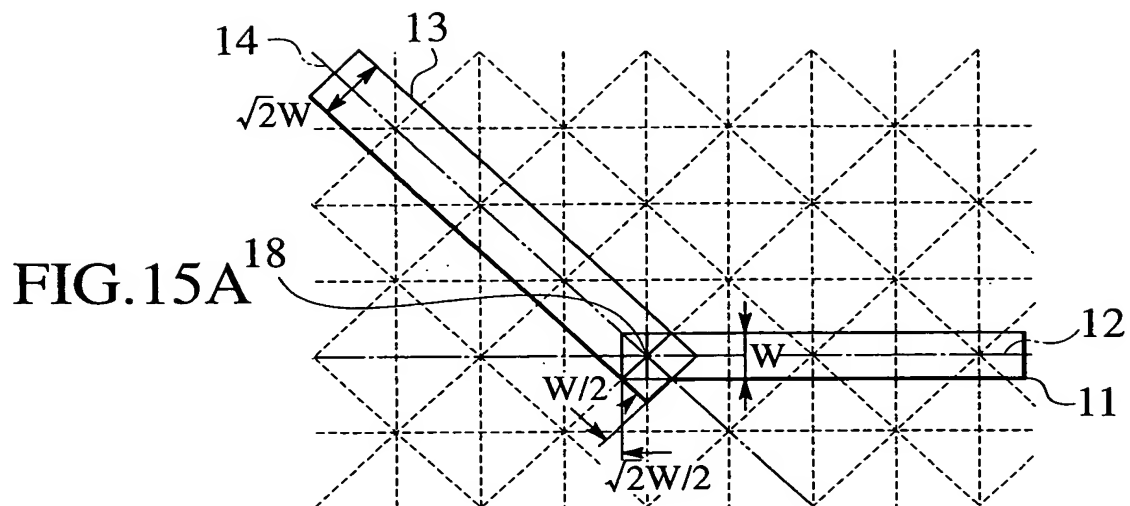


FIG.16A

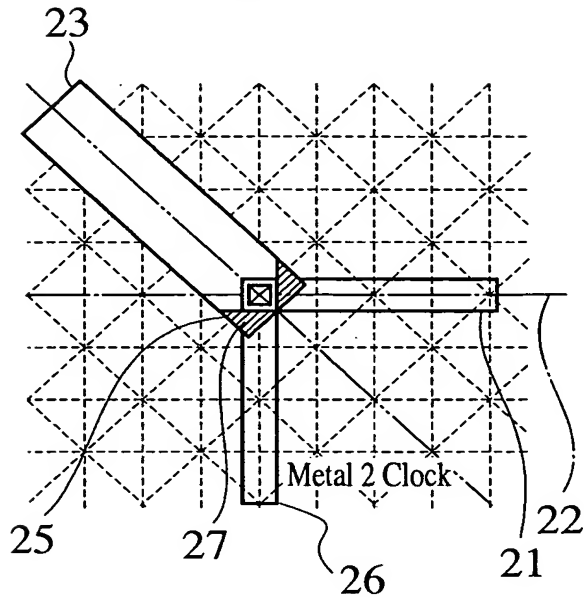


FIG.16B

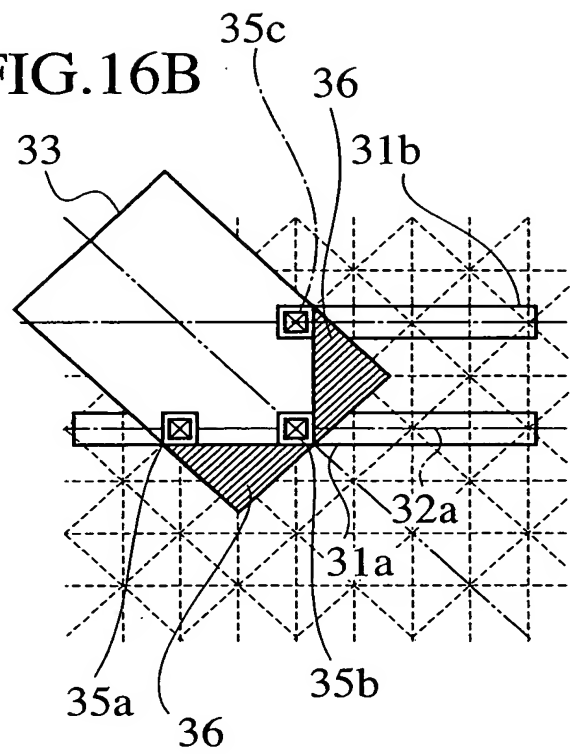


FIG.16C

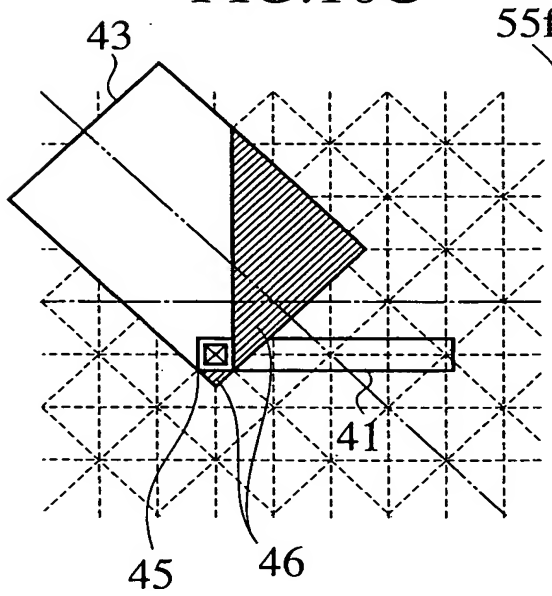


FIG.16D

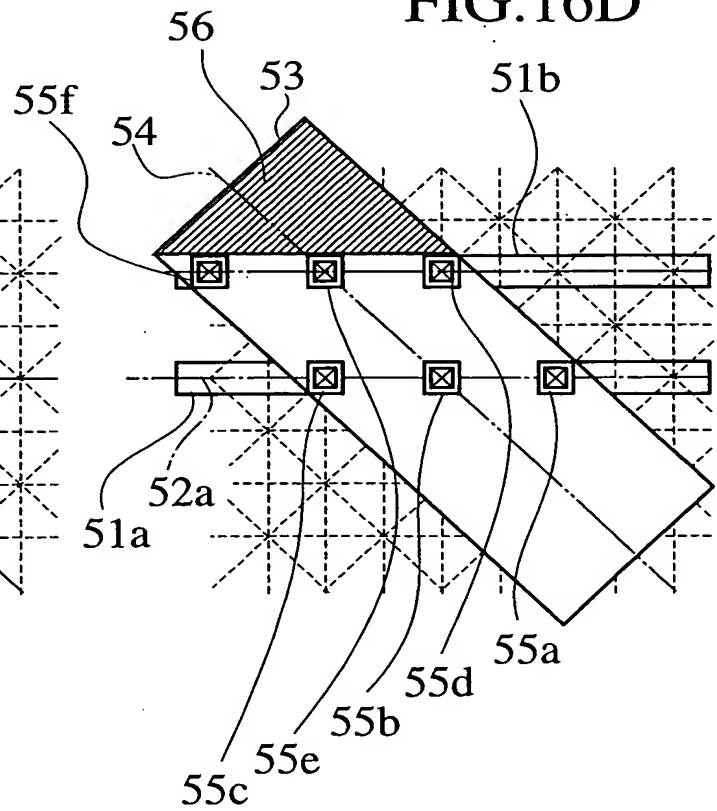




FIG.17A

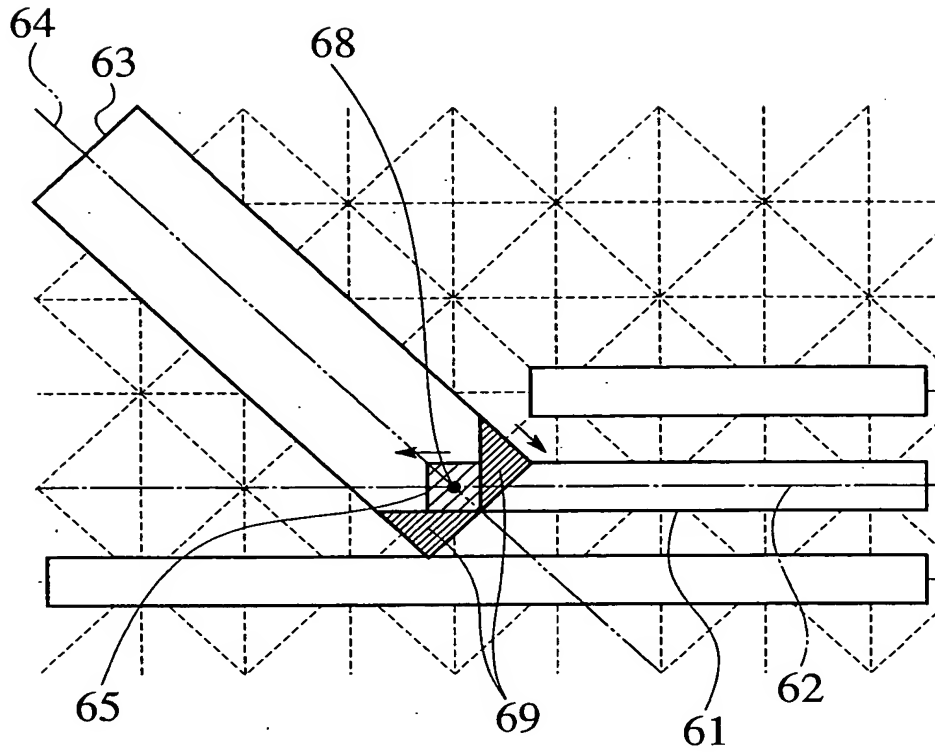


FIG.17B

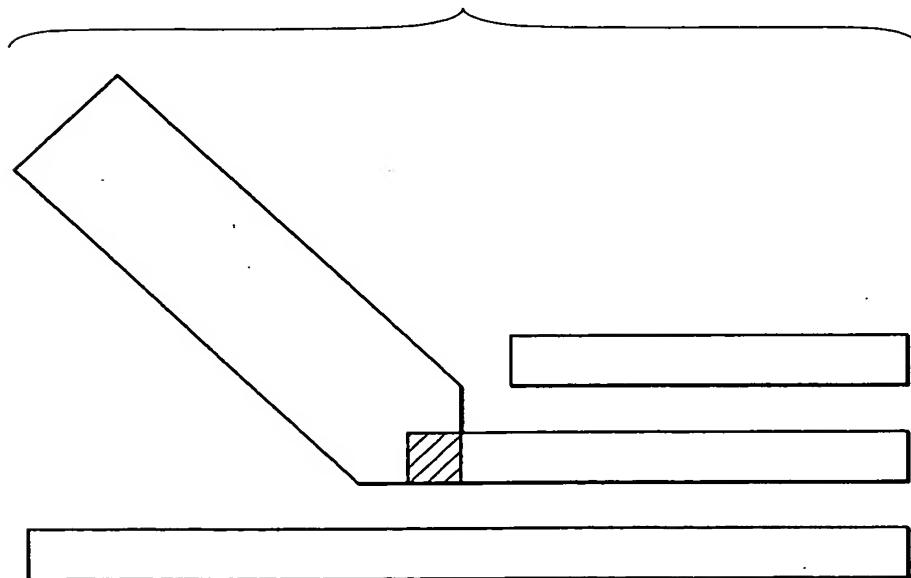


FIG.18A

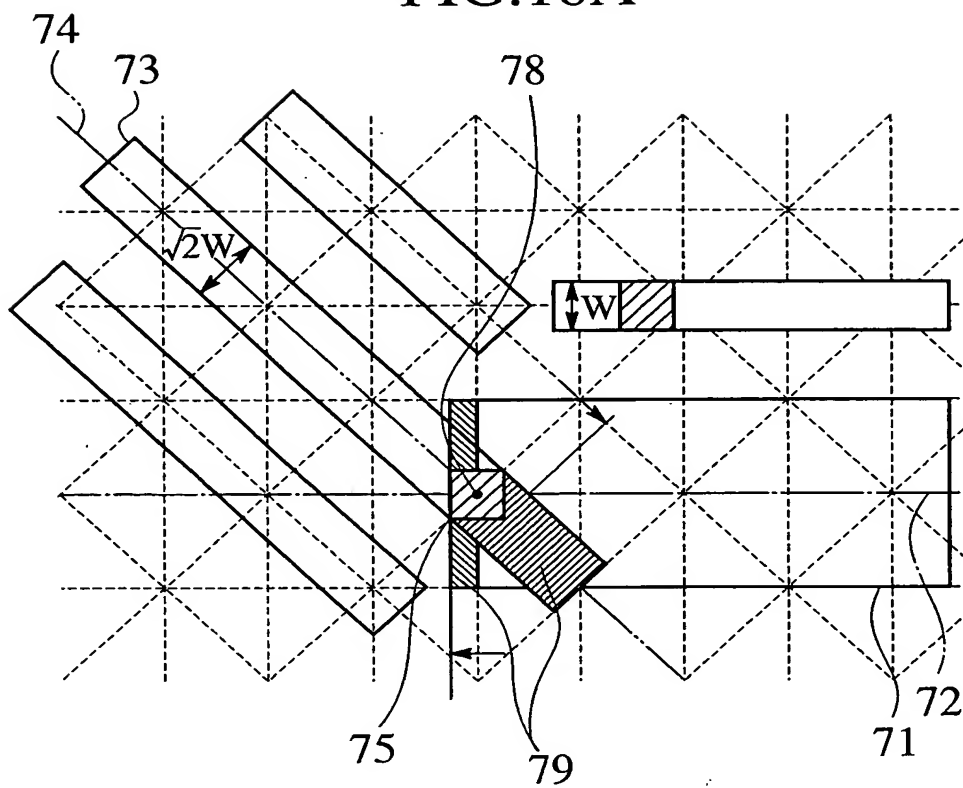


FIG. 18B

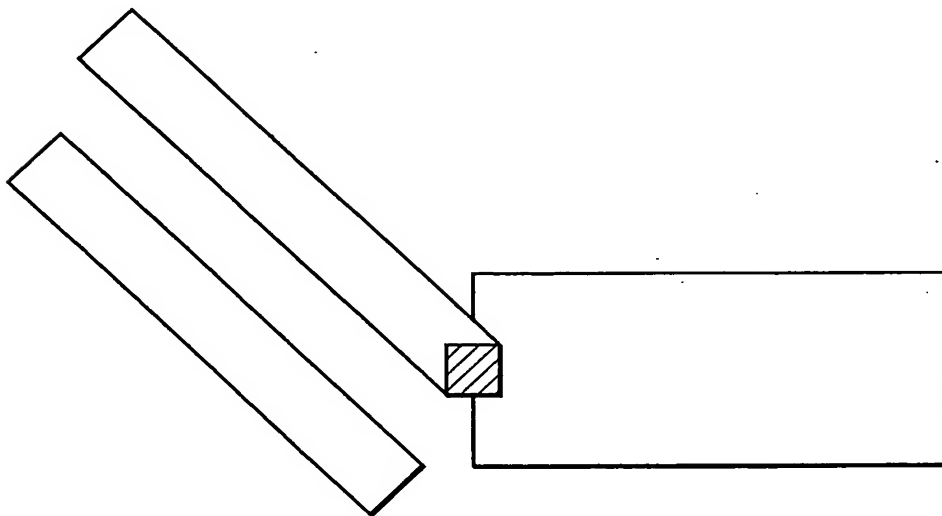


FIG. 19A

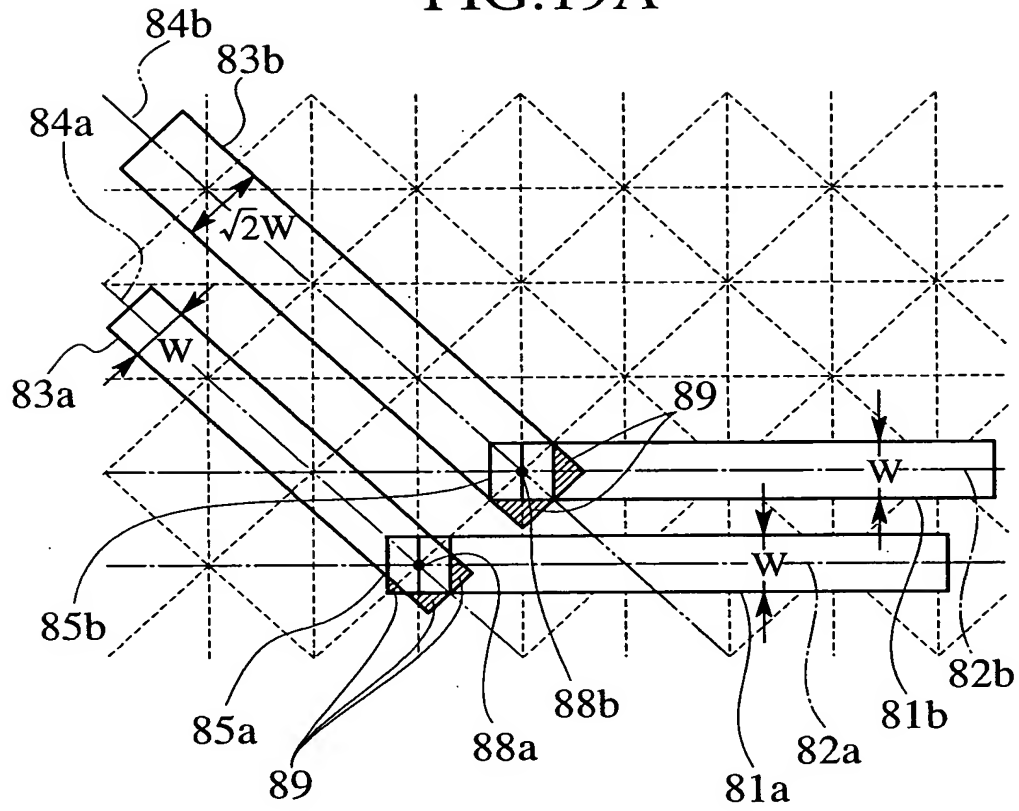


FIG. 19B

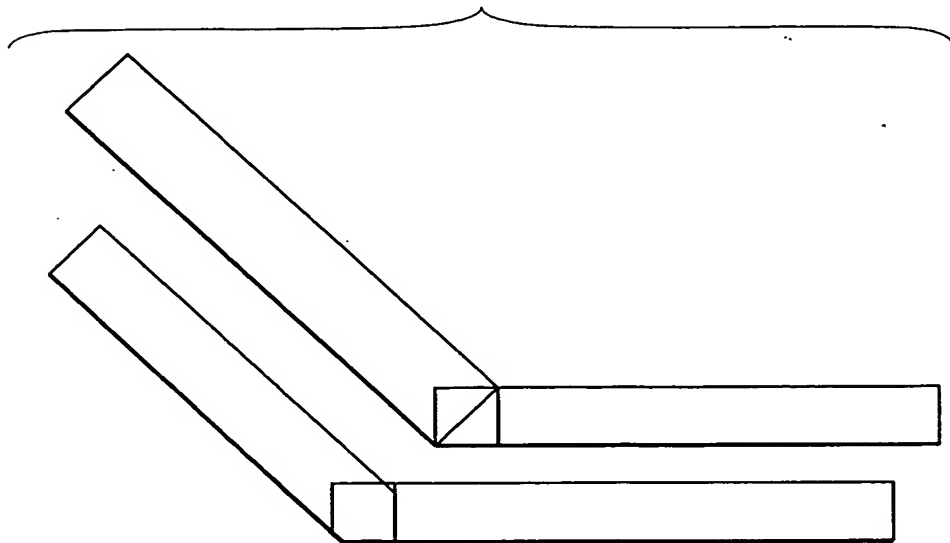


FIG.20A

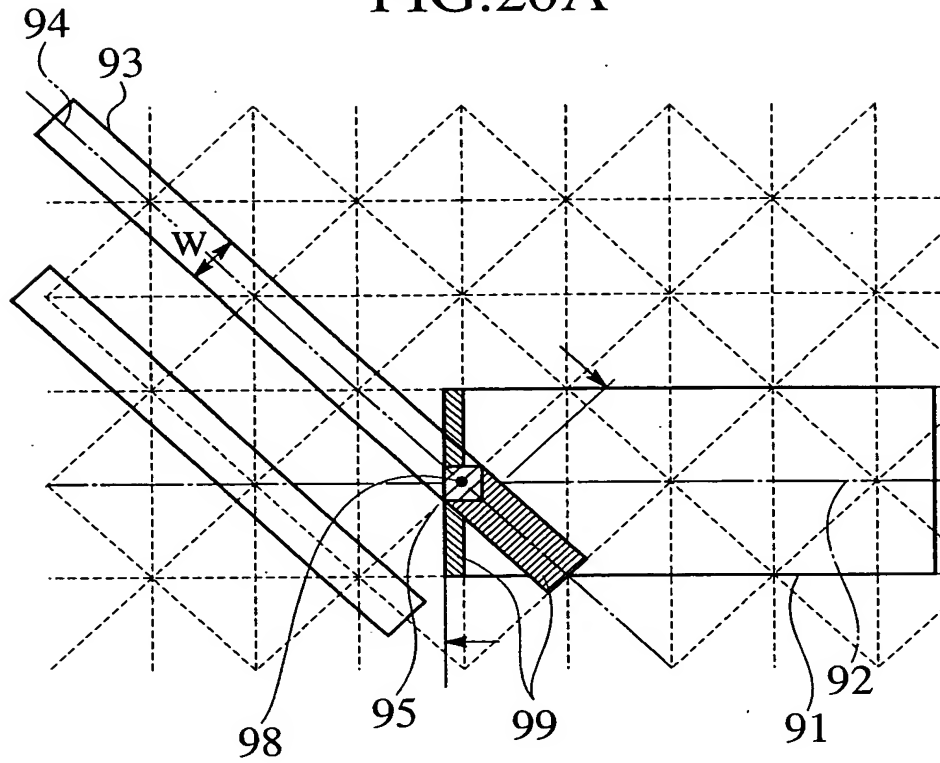


FIG.20B

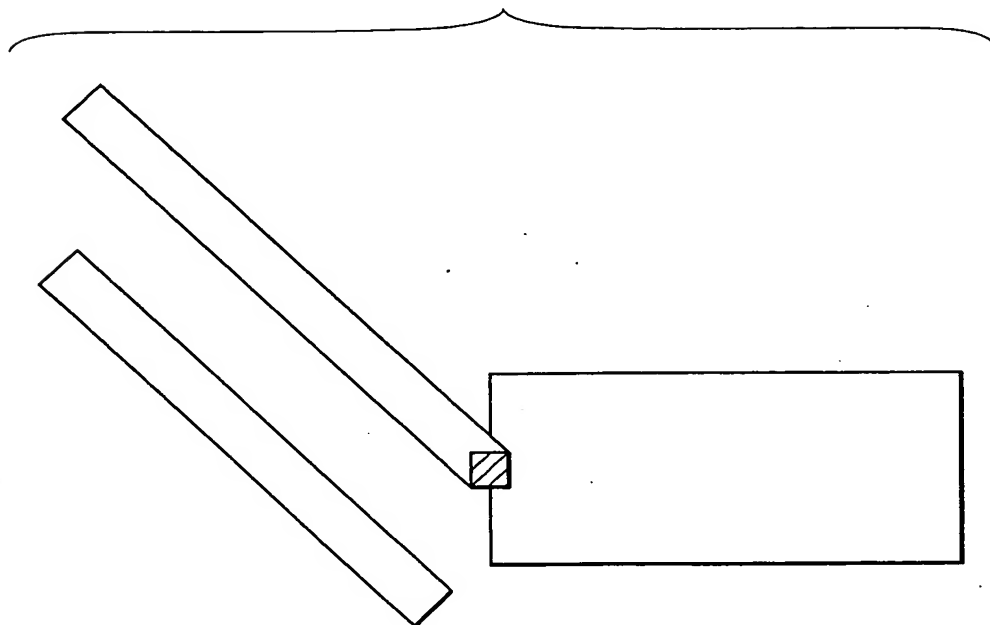


FIG.21A

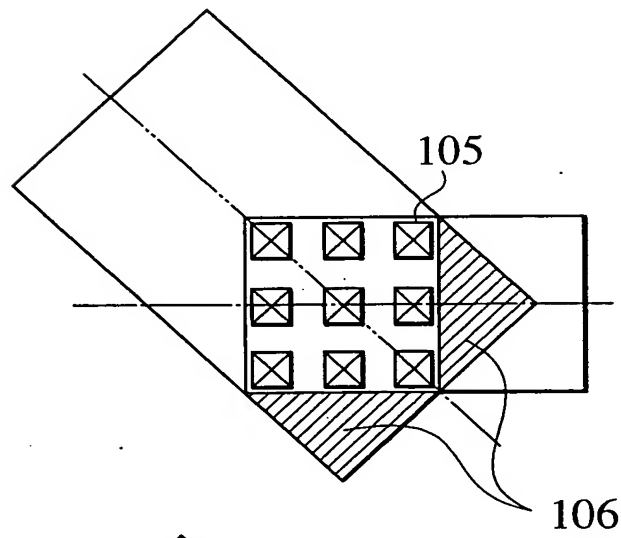
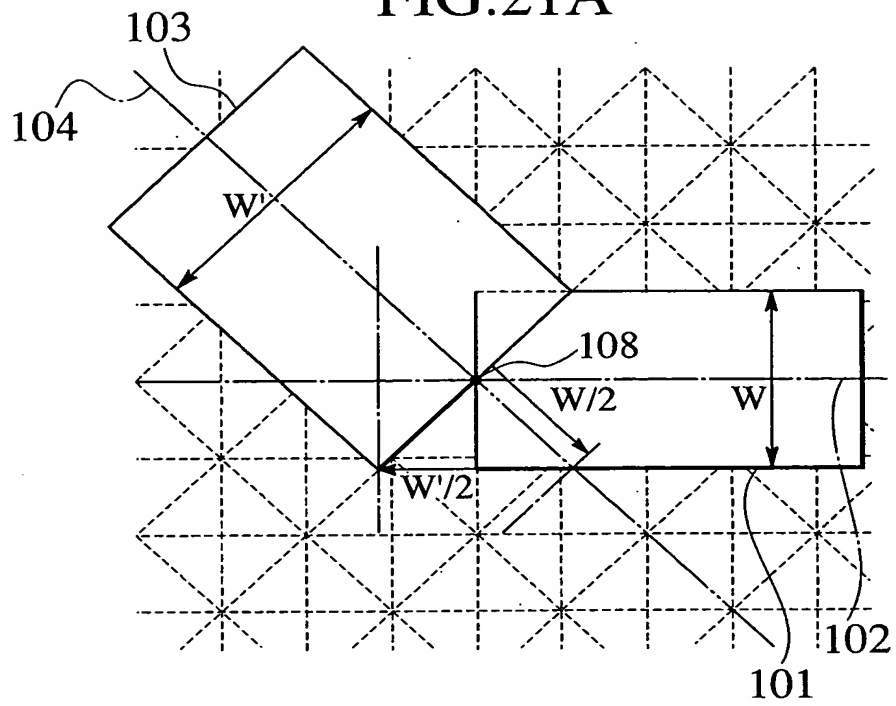


FIG.21B

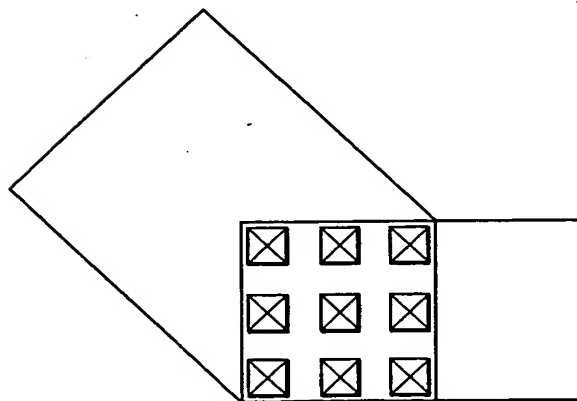


FIG.21C

FIG.22A

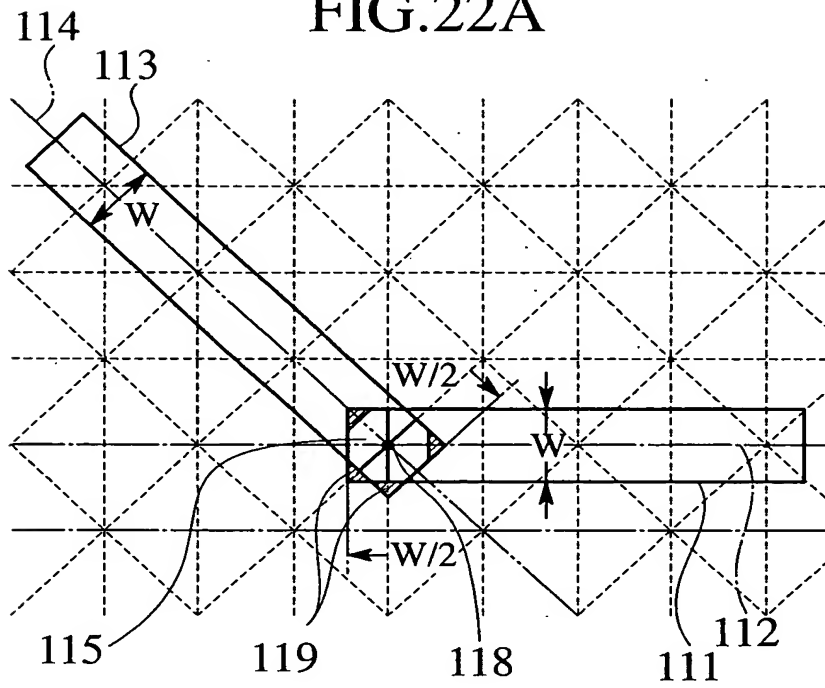


FIG.22B

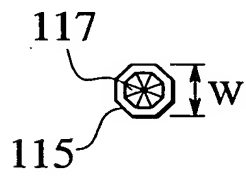


FIG.22C

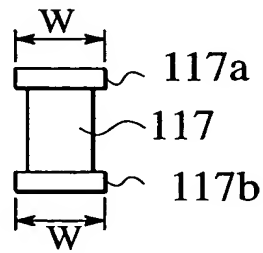


FIG.22D

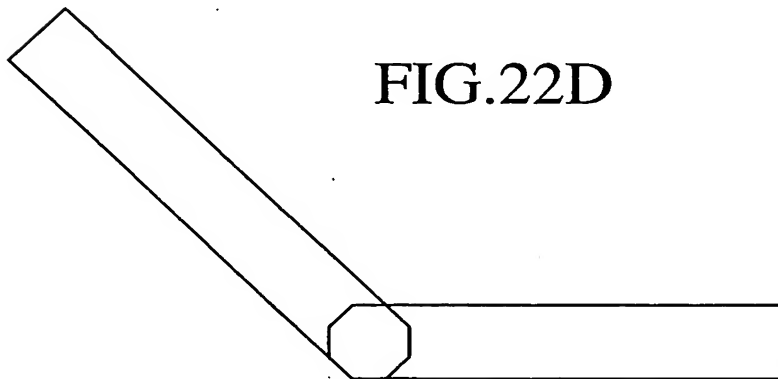


FIG.23A

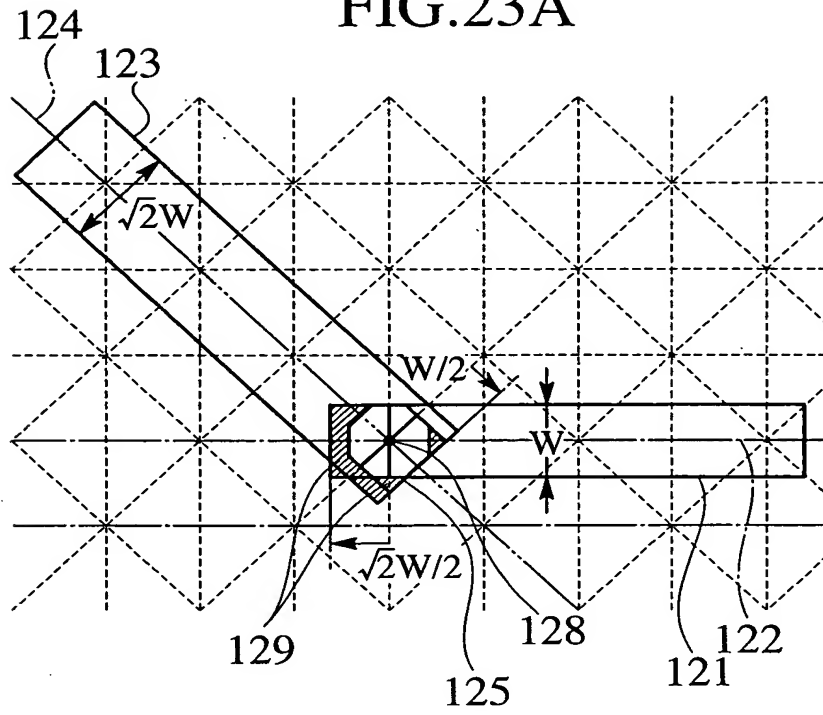


FIG.23B

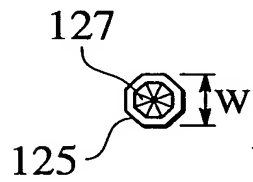


FIG.23C

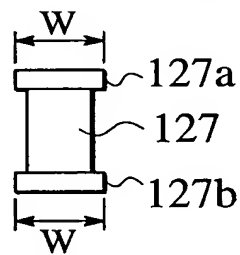


FIG.23D

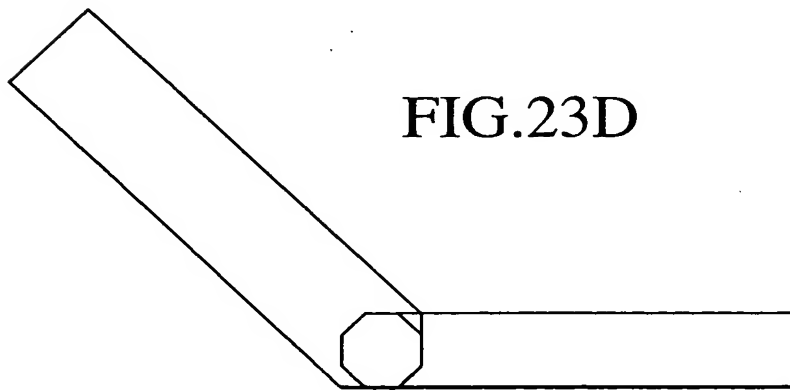


FIG.24A

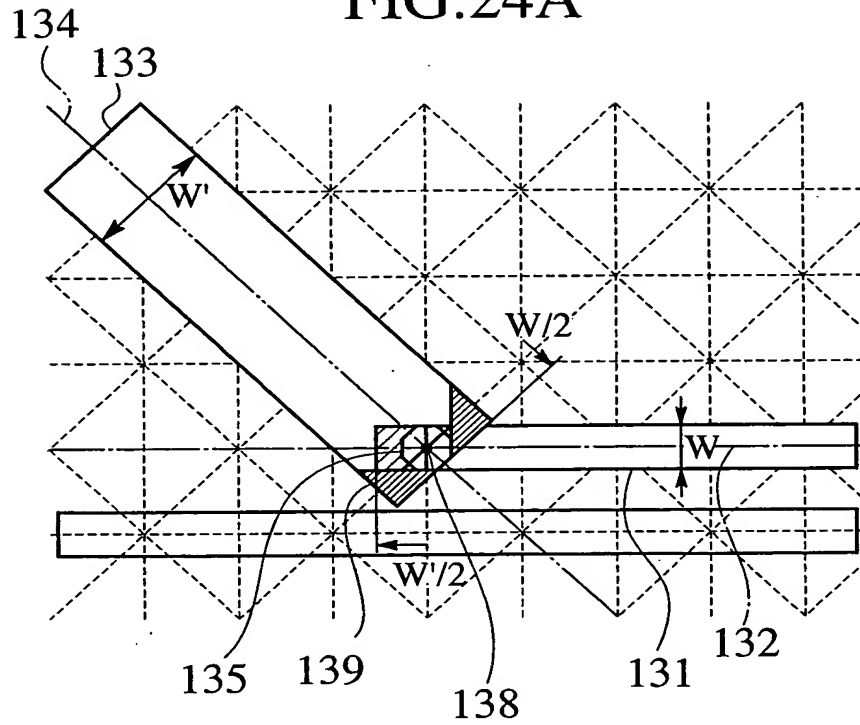


FIG.24B

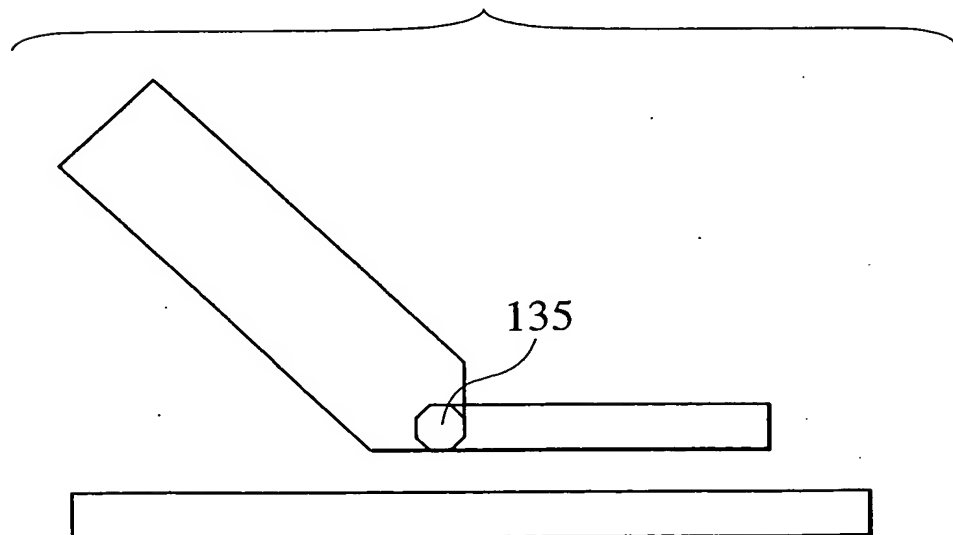




FIG.25A

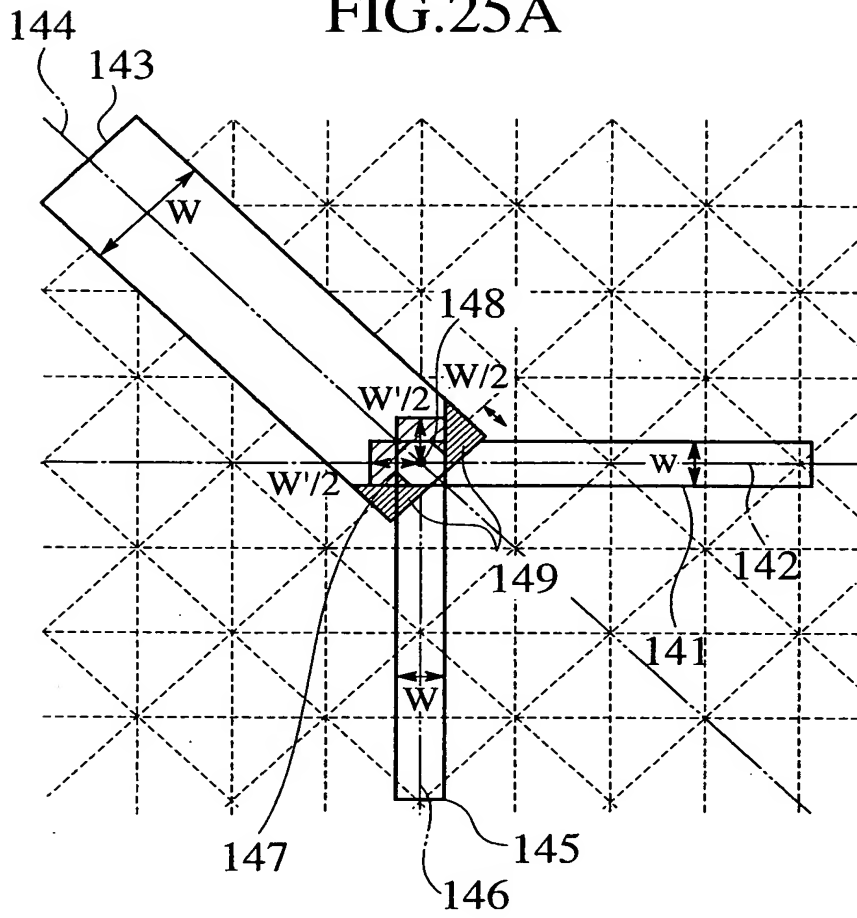


FIG.25B

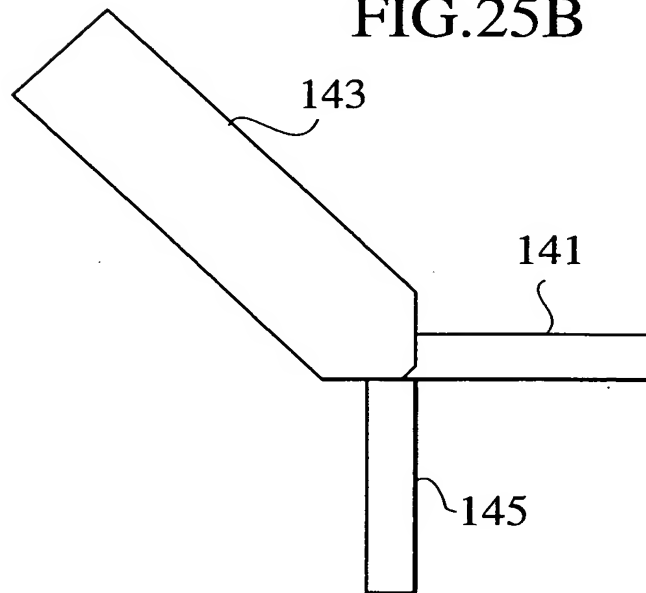


FIG.26A

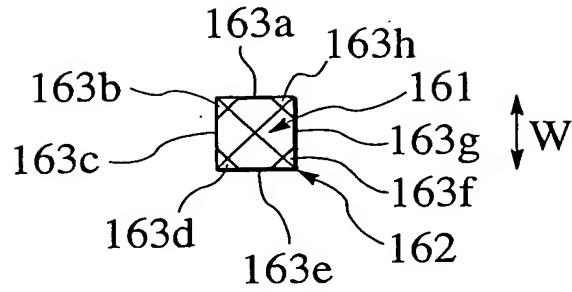


FIG.26B

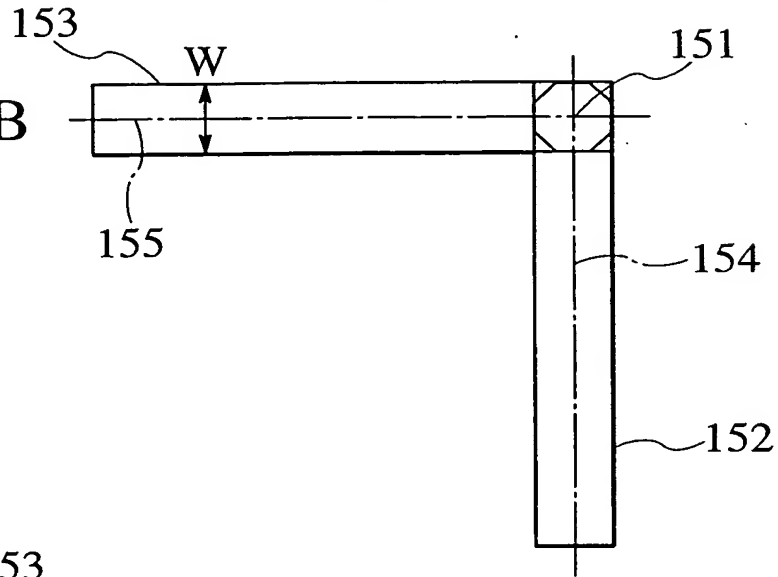


FIG.26C

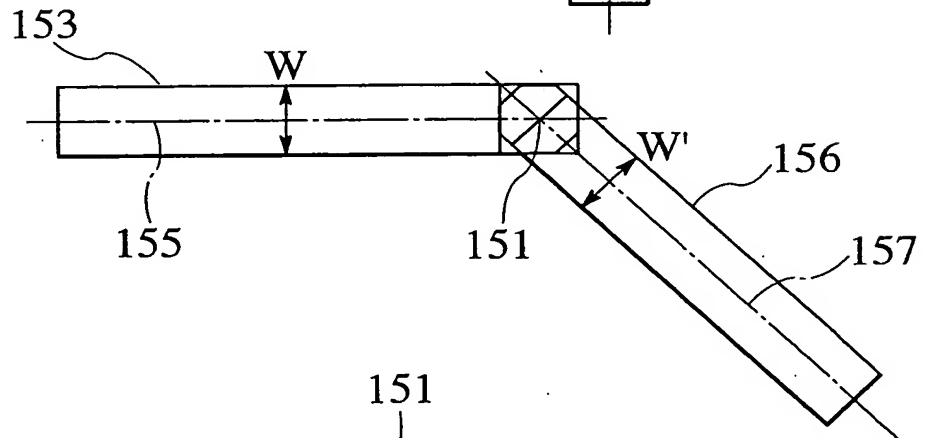


FIG.26D

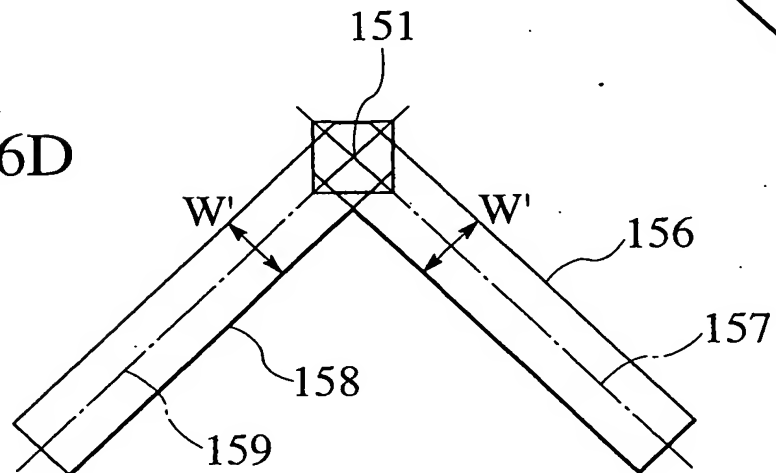


FIG.27

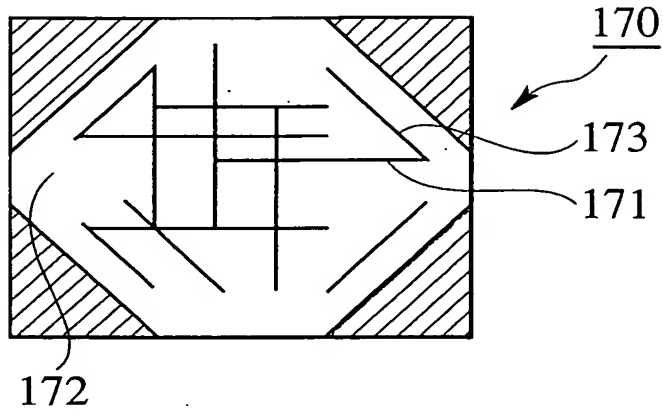


FIG.28A

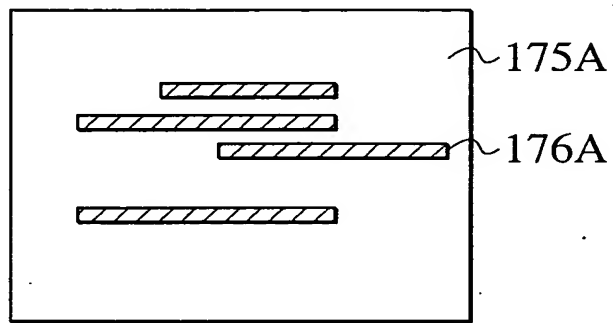


FIG.28B

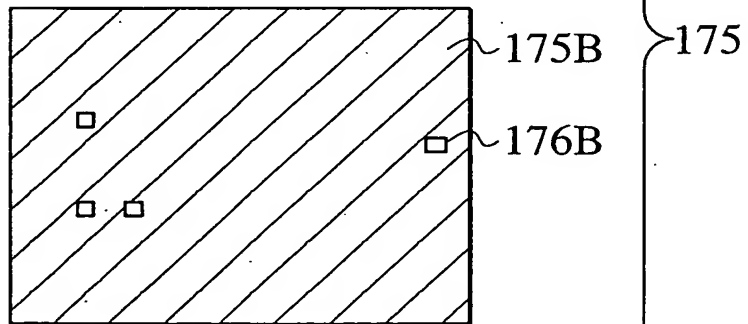


FIG.28C

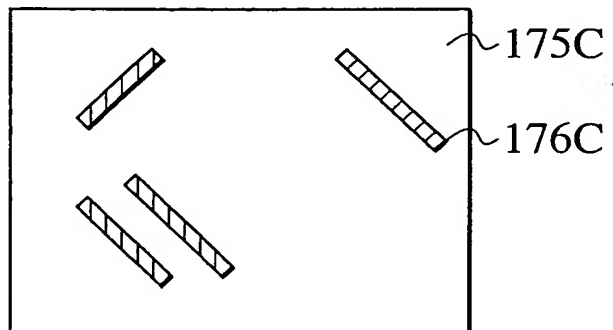


FIG. 29

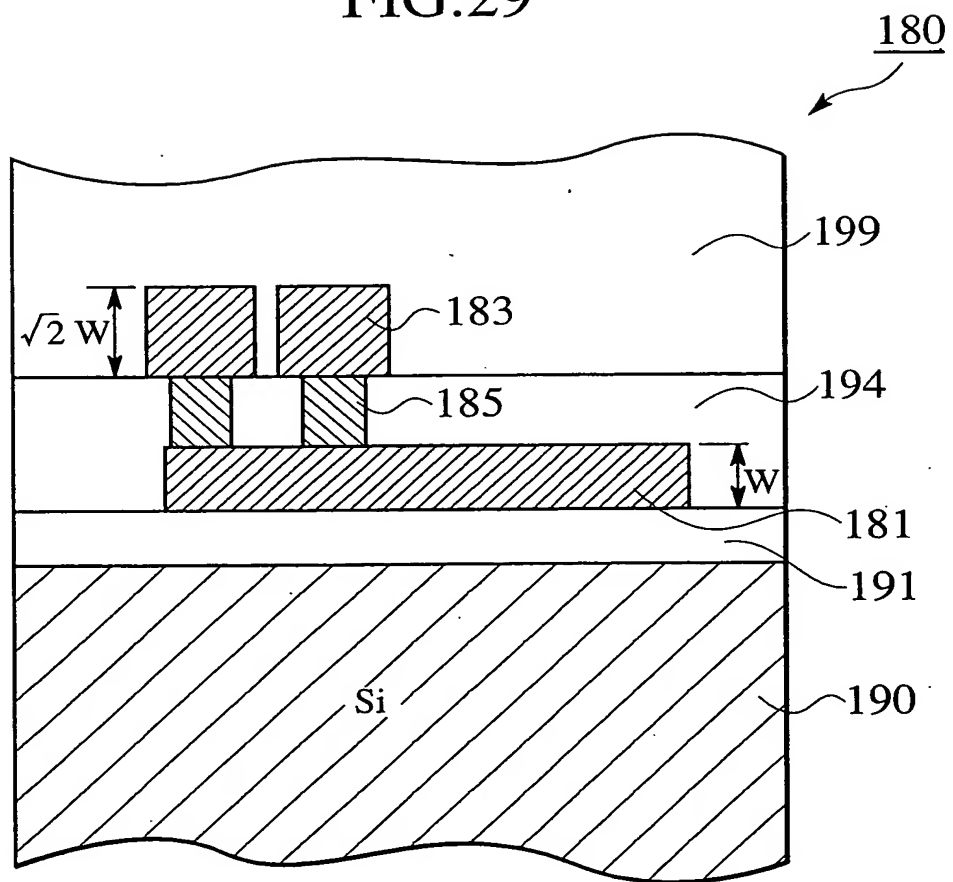


FIG.30A

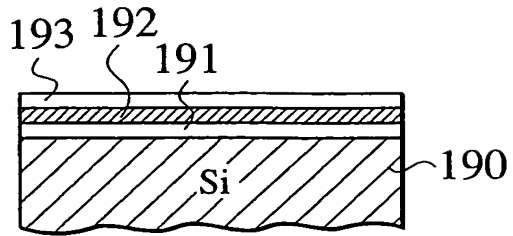


FIG.30F

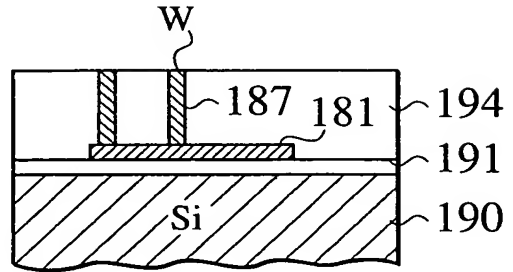


FIG.30B

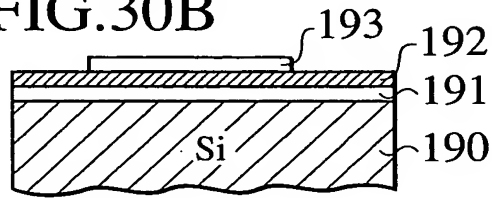


FIG.30G

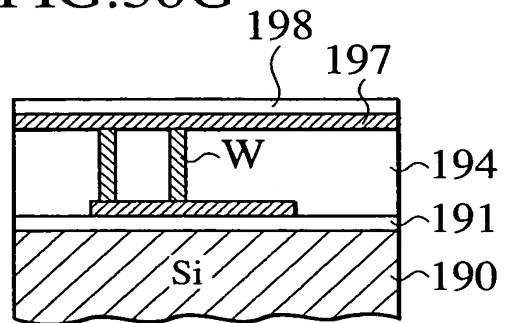


FIG.30C

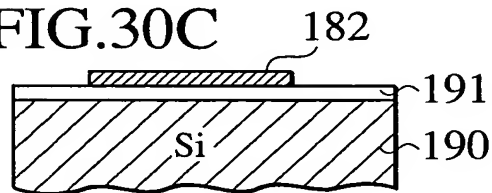


FIG.30H

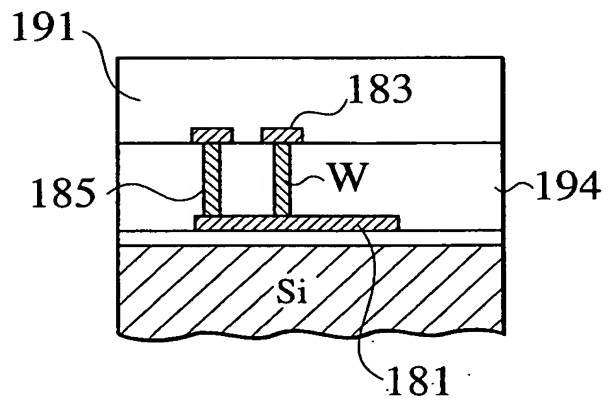


FIG.30D

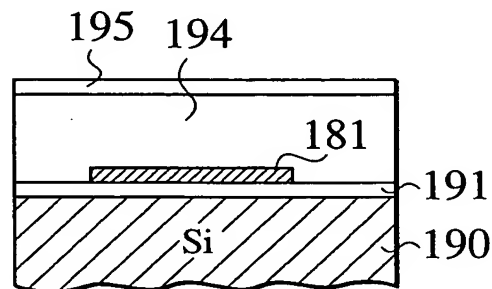


FIG.30E

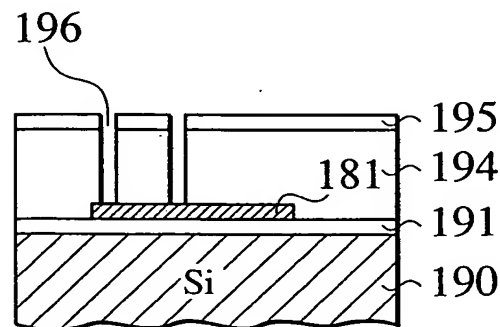


FIG.31

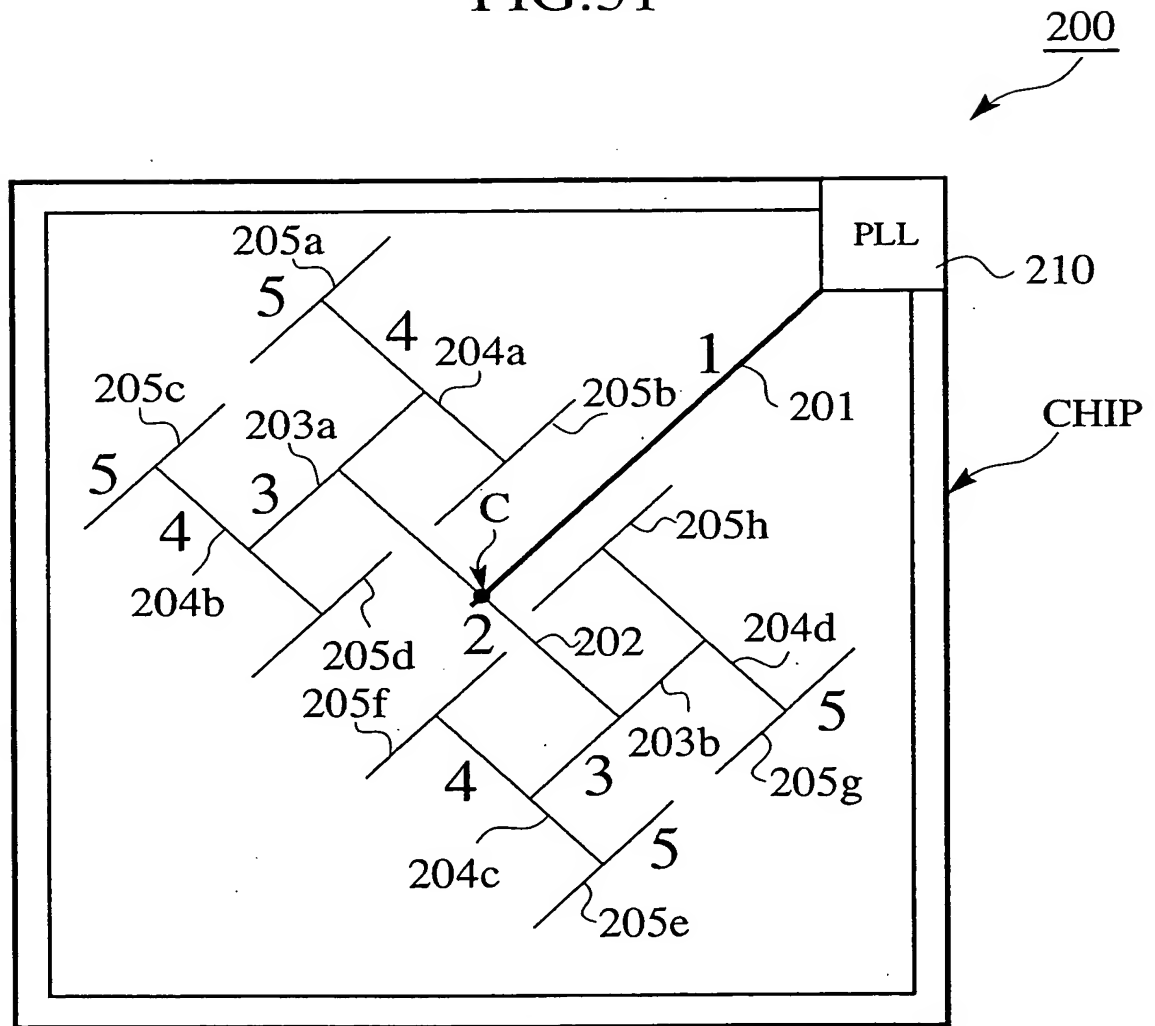


FIG.32

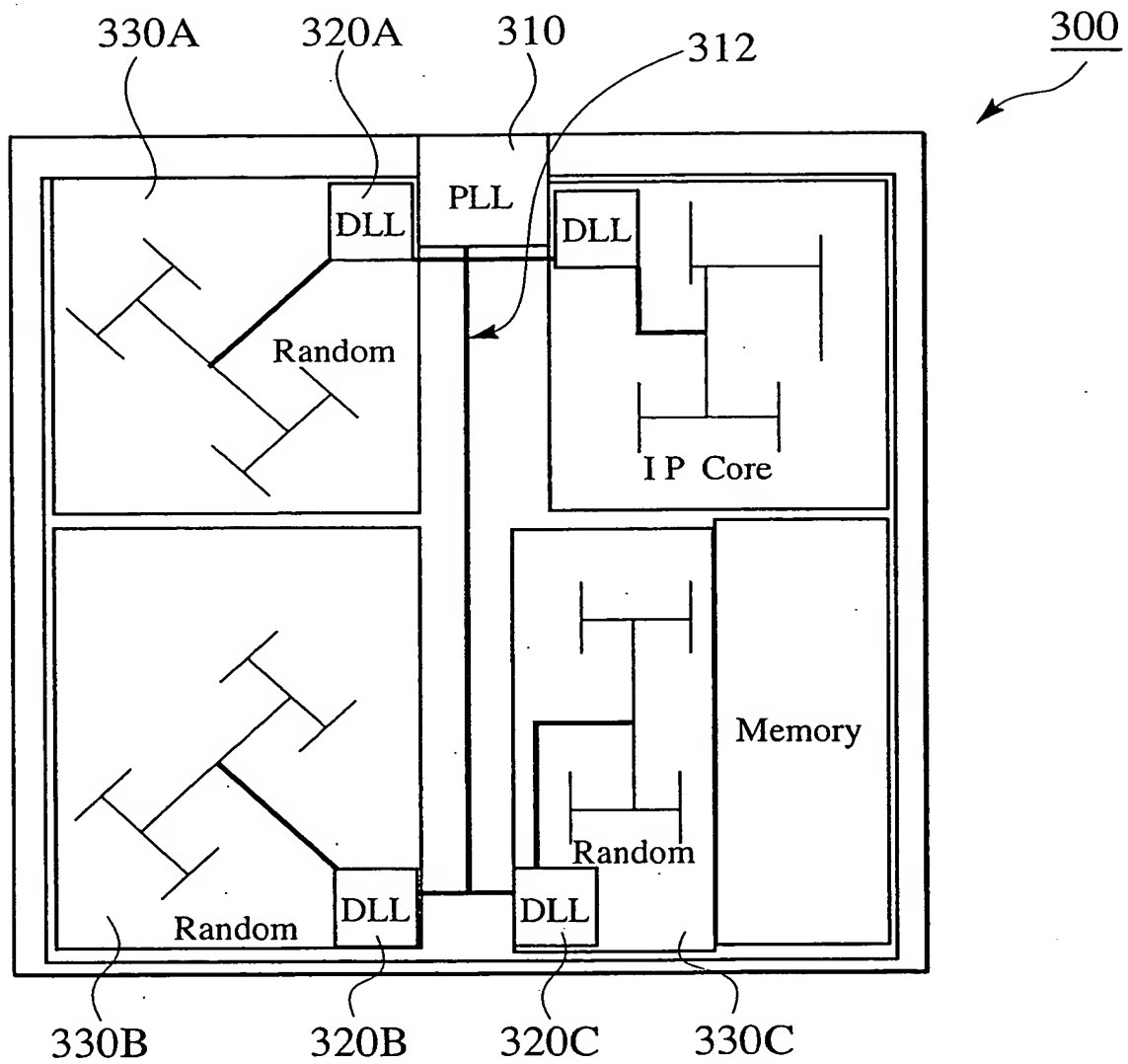


FIG.33

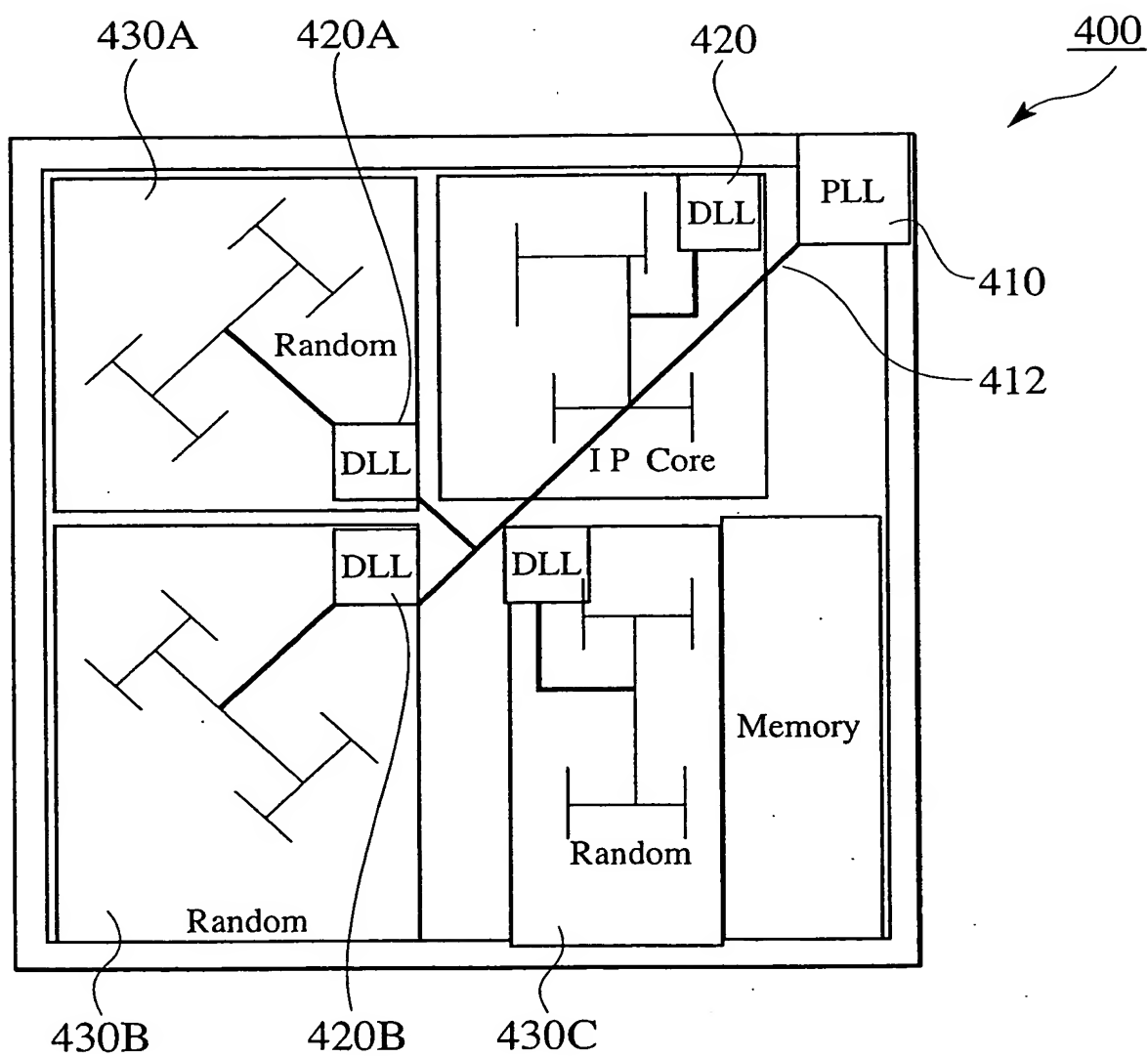




FIG.34

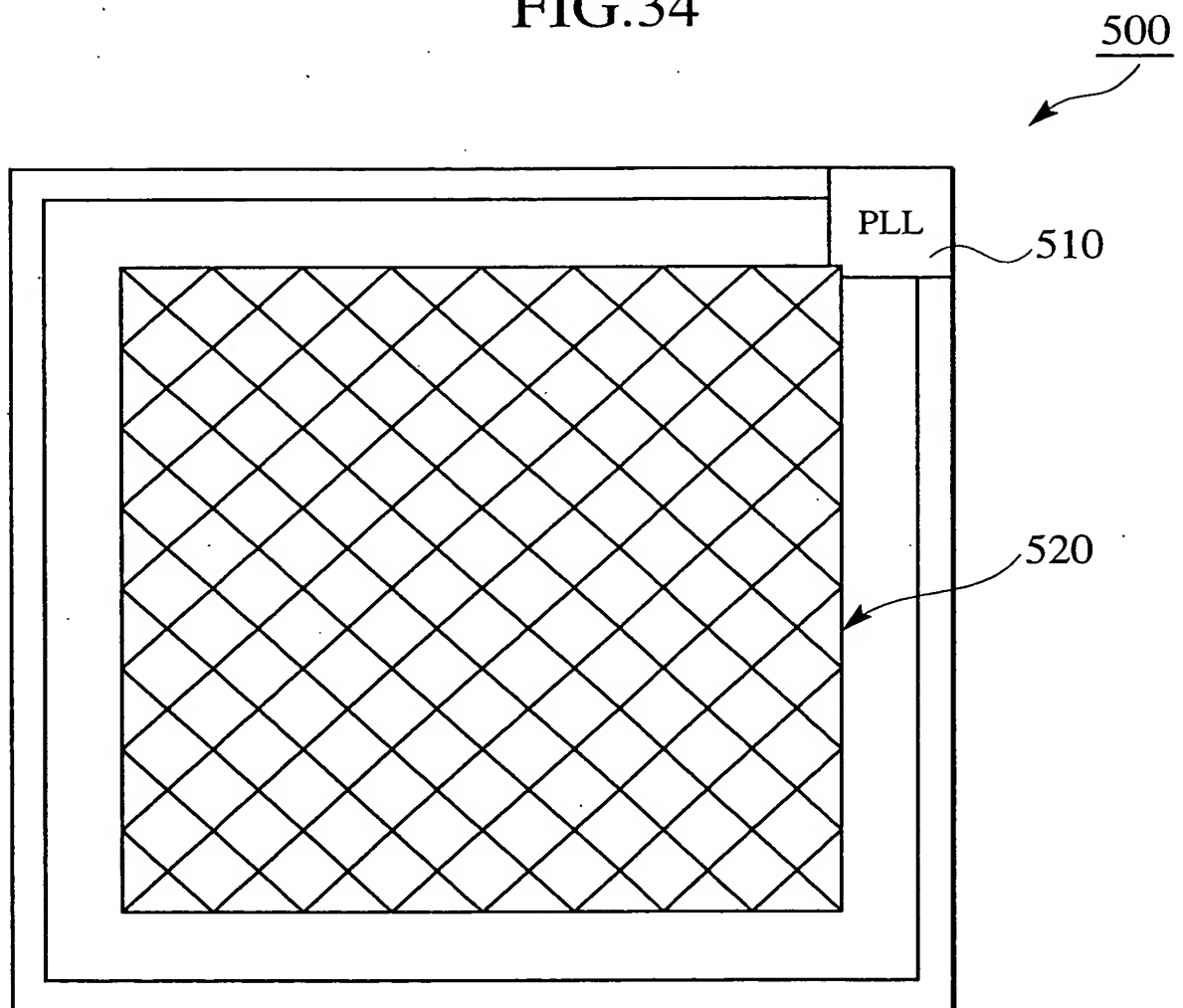
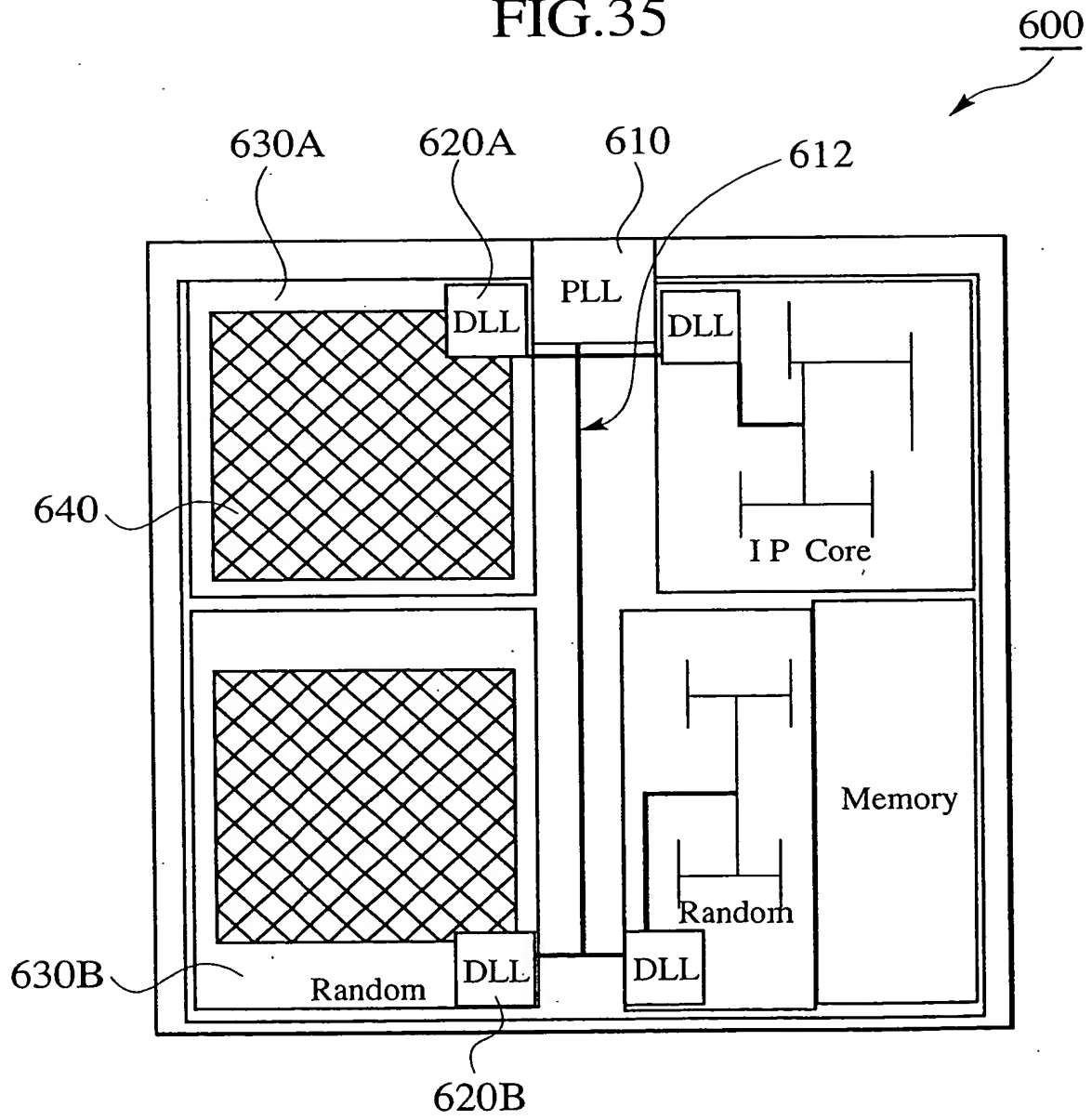


FIG.35



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FIG.36

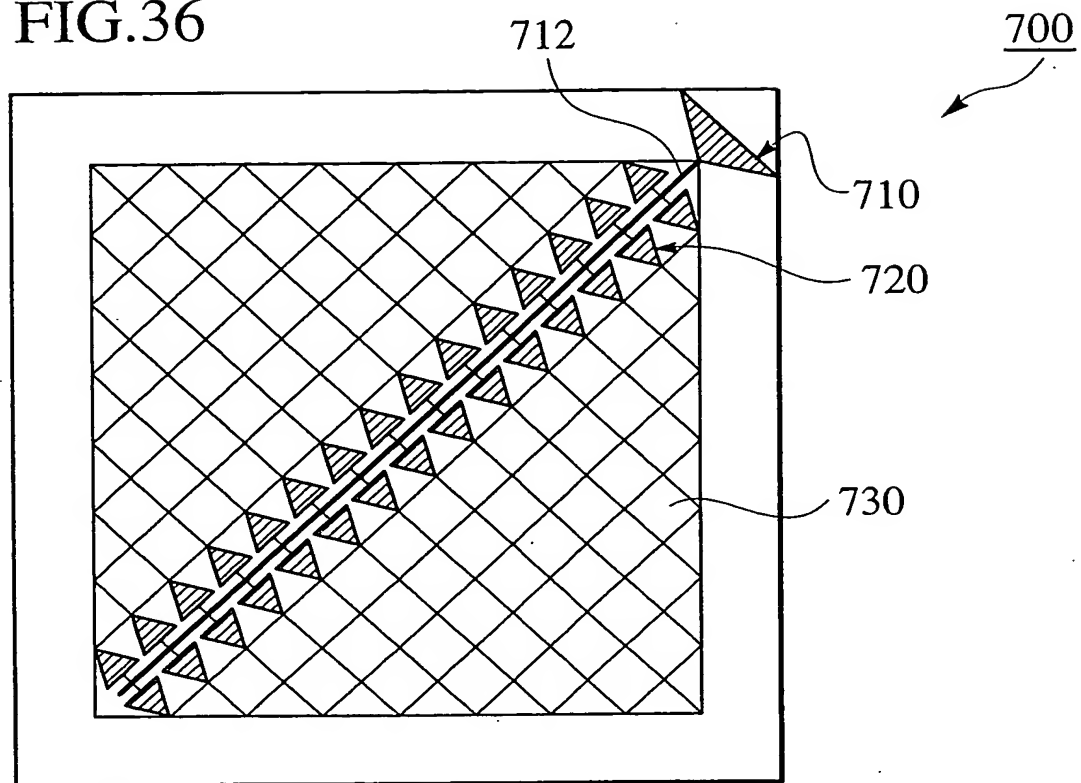


FIG.37

